The Journal of THORACIC AND CARDIOVASCULAR SURGERY

Official organ, The American Association for Thoracic Surgery

Editor BRIAN BLADES, *Washington, D. C.*

Associate editors THOMAS H. BURFORD, *St. Louis*
PAUL ADKINS, *Washington, D. C.*

Advisory editorial board WILLIAM E. ADAMS, *Chicago*
EDWARD J. BEATTIE, JR., *New York*
WILFRED G. BIGELOW, *Toronto*
EDWARD D. CHURCHILL, *Boston*
O. THERON CLAGETT, *Rochester, Minn.*
ANTHONY R. CURRERI, *Madison, Wis.*
DONALD B. EFFLER, *Cleveland*
LEO ELOESSER, *San Francisco*
ROBERT E. GROSS, *Boston*
CAMERON HAIGHT, *Ann Arbor*
STUART W. HARRINGTON, *Rochester, Minn.*
JOHN C. JONES, *Los Angeles*
HIRAM T. LANGSTON, *Chicago*
HERBERT C. MAIER, *New York*
DONALD L. PAULSON, *Dallas*
DAVID C. SABISTON, JR., *Durham, N. C.*
PAUL C. SAMSON, *Oakland*

Advisory editorial board representing the Society of Thoracic Surgeons of Great Britain and Ireland
LORD RUSSELL C. BROCK, *London, England*
SIR CLEMENT PRICE THOMAS, *Sussex, England*

EVARTS A. GRAHAM, *Editor, 1931-1957*
EMILE HOLMAN, *Editor, 1957-1962*

Volume 61, January-June, 1971
The C. V. Mosby Company
St. Louis, Mo.

XUM

Volume 61
Copyright, © 1971 by The C. V. Mosby Company
All rights reserved
Printed in the United States of America

Index to volume 61

Author index*

A

ABBOTT, OSLER, A. (*See* HATCHER, SEHDEVA, WATERS, SCHULZE, LOGAN, SYMBAS, and ABBOTT), 39

ÅBERG, TORKEL, JOHANSSON, LENNART, MICHAELSSON, MAGNUS, and RHEDIN, BJÖRN. Left ventricular-right atrial shunt of septic origin: presentation of a case with surgical closure, 212

ABLAZA, SARIEL G. G., BLANCO, GUMERSINDO, JAVAN, MEHDI B., MARANHAO, VLADIR, and GOLDBERG, HARRY. Cloth cover wear of the struts of the Starr-Edwards aortic valve prosthesis: a case report, 315

ABRAHAM, K. S., LAJOS, T. Z., and SCHIMERT, G. Replacement of the mitral valve through the left ventricle: a new approach, 686

ABRAHAMS, IRVING (*See* ZATZKIN, JOHNSON, and ABRAHAMS), 619

ADKINS, PAUL C. (*See* JOSEPH, MORTON, and ADKINS), 23

AGUILAR, MARY JANE, GERBODE, FRANK, and HILL, J. DONALD. Neuropathologic complications of cardiac surgery, 676

ALDRETE, J. ANTONIO (*See* O'HIGGINS, GUILLEN, and ALDRETE), 870

ALICAN, FIKRI, CAYIRLI, MUKADDER, ISIN, EROL, and HARDY, JAMES D. Surgical technique of one-stage bilateral lung reimplantation in the dog, 847

ALMOND, CARL H. (*See* ELKADI, LICHTI, SAUER, SIMMONS, and ALMOND), 739

AMELI, F. MICHAEL (*See* BAIRD, SHAH, and AMELI), 456

AMMANN, J. F., and COLLIS, J. LEIGH. Palliative intubation of esophagus: analysis of 59 cases, 863

ARCINIEGAS, EDUARDO, and COATES, E. OSBORNE. Massive pulmonary arterial thrombosis following pneumonectomy, 487

ARMSTRONG, PAUL W., and PARKER, JOHN O. The complications of brachial arteriotomy, 424

ARNDT, JEROME H. (*See* RAZZUK, URSCHEL, RACE, ARNDT, and PAULSON), 541

ASSOR, DEITER (*See* KAKOS, WILLIAMS, ASSOR, and VASKO), 777

ASTON, SHERRELL J., and MULDER, DONALD G. Cardiac valve replacement: 7 year follow-up, 547

B

BAHLER, ROBERT (*See* HAIDERER, BAHLER, CARSON, and KENNEDY), 933

BAIRD, RONALD J., SHAH, PRAKASH A., and AMELI, F. MICHAEL. The initial flow through an internal mammary artery implanted into the myocardium, 456

BARBIER, F. (*See* DEROM, BARBIER, RINGOIR, VERSIECK, ROLLY, BERZSENYI, VERMEIRE, and VRINTS), 835

BARCIA, ALBERTO (*See* KOUCHOUKOS, BARCIA, BARGERON, and KIRKLIN), 70

BARGERON, LIONEL M. (*See* KOUCHOUKOS, BARCIA, BARGERON, and KIRKLIN), 70

*January, pp. 1-166; February, pp. 167-332; March, pp. 333-500; April, pp. 501-664; May, pp. 665-834; June, pp. 835-1006.

XUM

BARNSLEY, W. C. (*See* CHUNG, LAWSON, BLESOVSKY, and BARNSLEY), 282

BARTLETT, ROBERT H. (*See* O'CONNOR, SHEH, BARTLETT, and GAZZANIGA), 342

BARTLEY, THOMAS D. (*See* WILLIAMS, VERNON, DAICOFF, BARTLEY, WHEAT, and RAMSEY), 393

BASS, HARRY (*See* MATLOFF, BASS, and DALEN), 451

BAUE, ARTHUR E. (*See* GEHA, MALT, NARA, and BAUE), 200

BAUM, STANLEY (*See* WALLACE, SHEN, BAUM, BLAKEMORE, and ZINSSER), 461

BEASLEY, WALTER E., III, and MILLS, MITCHELL. Chylous cystectomy with prosthetic reconstruction of the diaphragm and esophageal hiatus, 324

BEATTIE, EDWARD J., JR. (*See* MARTINI, HAJDU, and BEATTIE), 33

BEAULIEU, M., DESPRÉS, J. P., BENICHOU, J., CHARBONNEY, J., ROY, P.-E., and MORIN, P. J. Xiphoid mediastinoscopy for permanent myocardial implantation of a modified electrode: preliminary report, 968

BEMILLER, CARL R. (*See* MORGAN, FORKER, BEMILLER, TRUMMER, and FOSBURG), 904

BENICHOU, J. (*See* BEAULIEU, DESPRÉS, BENICHOU, CHARBONNEY, ROY, and MORIN), 968

BENNETT, DONALD J. (*See* PRABHAKER, HORTON, BENNETT, TALLEY, and WRIGHT), 885

—. (*See* WRIGHT, MCCREDIE, HORTON, and BENNETT), 242

BERMAN, MICHAEL A. (*See* SPOTNITZ, BERMAN, REIS, and EPSTEIN), 167

BERTRANOU, ENRIQUE (*See* STANLEY, BERTRANOU, FOREST, and LANGEVIN), 309

BERZSENYI, G. (*See* DEROM, BARBIER, RINGOIR, VERSIECK, ROLLY, BERZSENYI, VERMEIRE, and VRINTS), 835

BIGELOW, WILFRED G. (*See* SILVER, TUFFNELL, and BIGELOW), 278

BILLIG, DONAL M., KREIDBERG, MARSHALL B., CHERNOFF, HARVEY L., and KHAN, M. A. ALI. Mitral stenosis and insufficiency with subaortic and subpulmonic stenosis: report of a case of successful surgical treatment, 121

BLAKEMORE, WILLIAM S. (*See* WALLACE, SHEN, BAUM, BLAKEMORE, and ZINSSER), 461

BLANCO, GUMERSINDO (*See* ABLAZA, BLANCO, JAVAN, MARANHAO, and GOLDBERG), 315

BLESOVSKY, A. (*See* CHUNG, LAWSON, BLESOVSKY, and BARNSLEY), 282

BLONDEAU, P. (*See* CARPENTIER, DELOCHE, DAUPTAIN, SOYER, BLONDEAU, PIWNICA, and DUBOST), 1

BLUNDELL, P. E. (*See* CHIU, BLUNDELL, SCOTT, and GURD), 141

BOLEY, SCOTT J. (*See* VEITH, SINHA, GRAVES, BOLEY, and DOUGHERTY), 804

BOWMAN, FREDERICK O., JR., MALM, JAMES R., HAYES, CONSTANCE J., GERSONY, WELTON M., and ELLIS, KENT. Pulmonary atresia with intact ventricular septum, 85

BRANFOOT, A. C. (*See* WEAVER, BRANFOOT, and HARGROVE), 300

BRAUNWALD, NINA S. (*See* DETMER and BRAUNWALD), 175

BRENNER, WILLIAM I., WALLSH, EUGENE, and SPENCER, FRANK C. Aortic vent efficiency: a quantitative evaluation, 258

BRUECKE, P., BURKE, J. F., LAM, K. W., SHANNON, D. C., and KAZEMI, H. The pathophysiology of pulmonary fat embolism, 949

BRYANT, LESTER R. (*See* TRINKLE and BRYANT), 617

BURKE, J. F. (*See* BRUECKE, BURKE, LAM, SHANNON, and KAZEMI), 949

C

CALINOG, TED A., CUSHING, WILLIAM, MERKOW, LEONARD P., MEHTA, VIRENDRA S., KENT, EDWARD, and MAGOVERN, GEORGE J. Rhabdomyosarcoma of the sternum: the surgical management and the availability of techniques of sternal reconstruction, 811

CALLAGHAN, J. C. (*See* LEE, ZARAGOZA, CALLAGHAN, ROSSALL, and FRASER), 688

CALLARD, GEORGE M., WRIGHT, CREIGHTON B., WRAY, R. CHRISTIE, and MINOR, GEORGE R. False aneurysm due to Mucor following repair of a coarctation with a Dacron prosthesis, 181

CARLETON, RICHARD A. (*See* LEVIN, FABER, and CARLETON), 104

CARPENTIER, A., DELOCHE, A., DAUPTAIN, J., SOYER, R., BLONDEAU, P., PIWNICA, A., and DUBOST, CH. A new reconstructive operation for correction of mitral and tricuspid insufficiency, 1

CARSON, PETER (*See* HAIDERER, BAHLER, CARSON, and KENNEDY), 933

CASTELLS, EDUARDO (*See* PUIG-MASSANA, MURTRA, CASTELLS, and REVUELTA), 397

CAYIRIL, MUKADDER (*See* ALICAN, CAYIRIL, ISIN, and HARDY), 847

CENTER, SOL, and TARJAN, PETER. Measurement of cardiac stimulation threshold by transcutaneous needle puncture, 752

CHARBONNEY, J. (*See* BEAULIEU, DESPRÉS, BENICHOU, CHARBONNEY, ROY, and MORIN), 968

CHATTERJEE, SHEKAR, and ROSENSWEIG, JACOB. Evaluation of intra-aortic balloon counterpulsation, 405

CHAUDHURI, M. RAY. Bronchial carcinosarcoma, 319

CHERNOFF, HARVEY L. (*See* BILLIG, KREIDBERG, CHERNOFF, and KHAN), 121

CHERRY, GEORGE, and MYERS, M. BERT. The relationship to ventricular fibrillation of early tissue sodium and potassium shifts and coronary vein potassium levels in experimental myocardial infarction, 587

CHETOCHINE, F. (*See* PIWNICA, CHETOCHINE, SOYER, and WINCKLER), 246

CHIU, C. J., BLUNDELL, P. E., SCOTT, H. J., and GURD, F. N. The intestinal lesions and circulating lysosomal enzymes in extracorporeal circulation: a clinical and experimental study, 141

CHUNG, E. P., LAWSON, R. A. M., BLESOVSKY, A., and BARNSLEY, W. C. Pyloromyotomy, a new technique in conjunction with esophagectomy or repair of hiatus hernia with vagotomy, 282

COALSON, JACQUELINE J. (*See* HARRISON, HINSHAW, COALSON, and GREENFIELD), 795

COATES, E. OSBORNE (*See* ARCINIEGAS and COATES), 487

COKKINOS, DENNIS V. P. (*See* LEACHMAN, COKKINOS, ROCHELLE, ZAMALLOA, MILAM, HALLMAN, and COOLEY), 561

COLAPINTO, N. D., and SILVER, M. D. Prosthetic heart valve replacement: causes of early postoperative death, 938

COLLIS, J. LEIGH (*See* AMMANN and COLLIS), 863

COOLEY, DENTON A. (*See* LEACHMAN, COKKINOS, ROCHELLE, ZAMALLOA, MILAM, HALLMAN, and COOLEY), 561

—. (*See* YASHAR, HALLMAN, LEACHMAN, and COOLEY), 724

COOPER, MALCOLM (*See* JAMES, WHITE, COOPER, and WAGNER), 530

CRAMER, GLEN (*See* DEMEULES, CRAMER, and PERRY), 438

CURRARINO, GUIDO (*See* NAZARIAN, CURRARINO, WEBB, WILLIS, KIPHART, and WILSON), 293

CUSHING, WILLIAM (*See* CALINOG, CUSHING, MERKOW, MEHTA, KENT, and MAGOVORN), 811

D

DAICOFF, GEORGE R. (*See* WILLIAMS, VERNON, DAICOFF, BARTLEY, WHEAT, and RAMSEY), 393

DALEN, JAMES E. (*See* MATLOFF, BASS, and DALEN), 451

DANIELSON, GORDON K., EXARHOS, NICHOLAS D., WEIDMAN, WILLIAM H., and MCGOON, DWIGHT C. Pulmonic stenosis with intact ventricular septum: surgical considerations and results of operation, 228

—, MAIR, DOUGLAS, D., ONGLEY, PATRICK A., WALLACE, ROBERT B., and MCGOON, DWIGHT C. Repair of transposition of the great arteries by transposition of venous return: surgical considerations and results of operation, 96

—. (*See* FLICK, HALLERMANN, FELDT, and DANIELSON), 419

—. (*See* GOMES, FELDT, MCGOON, and DANIELSON), 253

DAUGHERTY, HARRY K. (*See* ROBICSEK, DAUGHERTY, and MULLEN), 131

—. (*See* ROBICSEK, TAM, DAUGHERTY, and MULLEN), 472

DAUPTAIN, J. (*See* CARPENTIER, DELOCHE, DAUPTAIN, SOYER, BLONDEAU, PIWNICA, and DUBOST), 1

DEDICHEN, HENRIK, and SCHENK, WORTHINGTON G., JR. Cardiac output and its regional distribution in the dog: measurement with the electromagnetic flowmeter, 110

DELOCHE, A. (*See* CARPENTIER, DELOCHE, DAUPTAIN, SOYER, BLONDEAU, PIWNICA, and DUBOST), 1

DEMEULES, JAMES E., CRAMER, GLEN, and PERRY, JOHN F., JR. Rupture of aorta and great vessels due to blunt thoracic trauma, 438

DEPAREDES, CARLOS G. (*See* PIERCE, DEPAREDES, RAPHAELY, and WALDHAUSEN), 875

DEROM, FR., BARBIER, F., RINGOIR, S., VERSIECK, J., ROLLY, G., BERZSENYI, G., VERMEIRE, P., and VRINTS, L. Ten-month survival after lung homotransplantation in man, 835

DESPRÉS, J. P. (*See* BEAULIEU, DESPRÉS, BENICHOU, CHARBONNEY, ROY, and MORIN), 968

DETMER, DON E., and BRAUNWALD, NINA S. The metal poppet and the rigid prosthetic valve, 175

DIETER, RAYMOND A., JR. (*See* PIFARRÉ, DIETER, and NIEDBALLA), 154

DIGERNESS, STAN (*See* ENGLISH, DIGERNESS, and KIRKLIN), 338

DILLARD, DAVID H., MOHRI, HITOSHI, and MERENDINO, K. ALVIN. Correction of heart disease in infancy utilizing deep hypothermia and total circulatory arrest, 64

DILLON, M. L., VASQUEZ, M., and POSTLETHWAIT, R. W. Left ventricular wound: gross and microscopic findings 33 months after resection of postinfarction aneurysm, 605

DOUGHERTY, JOSEPH C. (*See* VEITH, SINHA, GRAVES, BOLEY, and DOUGHERTY), 804

DOWLING, EDMUND A. (*See* HOLDEFER, DOWLING, and KIRKLIN), 217

DUBOST, CH. (*See* CARPENTIER, DELOCHE, DAUPTAIN, SOYER, BLONDEAU, PIWNICA, and DUBOST), 1

DYE, WILLIAM S. (*See* OSTERMILLER, DYE, and WEINBERG), 670

—. (*See* OSTERMILLER, SOMERNDIKE, HUNTER, DYE, JAVID, NAJAFI, and JULIAN), 125

E

EDELSTEIN, STEPHEN G. (*See* TRINKLE, EDELSTEIN, and YOSHONIS), 765

EDWARDS, F. K. (*See* SYMBAS, SHUFORD, EDWARDS, and SEHDEVA), 149

EFFLER, DONALD B. Myocardial revascularization —direct or indirect, 498 (Edit.)

EHRENHAFT, J. L. (*See* ROSSI, MULDER, and EHRENHAFT), 380

ELKADI, AHMED, LICHTI, E. L., SAUER, PAUL E., SIMMONS, EARL M., and ALMOND, CARL H. Preoperative and postoperative evaluation of cannulation site in patients undergoing open-heart surgery: the use of the Doppler ultrasonic flowmeter, 739

ELLIS, KENT (*See* BOWMAN, MALM, HAYES, GERSONY, and ELLIS), 85

ENGLISH, T. A. H., DIGERNESS, STAN, and KIRKLIN, JOHN W. Changes in colloid osmotic pressure during and shortly after open intracardiac operation, 338

EPSTEIN, STEPHEN E. (*See* SPOTNITZ, BERMAN, REIS, and EPSTEIN), 167

ERAKLIS, ANGELO J. (*See* MARTY, ERAKLIS, PELLETIER, and MERRILL), 735

ESCHER, DORIS, J. W. (*See* FURMAN, PARKER, and ESCHER), 827

EXARHOS, NICHOLAS D. (*See* DANIELSON, EXARHOS, WEIDMAN, and MCGOON), 228

F

FABER, L. PENFIELD (*See* LEVIN, FABER, and CARLETON), 104

FEEZOR, M. D. (*See* HUTCHIN, FEEZOR, WALKER, and PETERS), 476

FELDT, ROBERT H. (*See* FLICK, HALLERMANN, FELDT, and DANIELSON), 419

—. (*See* GOMES, FELDT, MCGOON, and DANIELSON), 253

FINNERAN, JOSEPH C. (*See* SHUMACKER, ISCH, and FINNERAN) 304

FISCHER, R. DARYL (*See* GRALNICK and FISCHER), 909

FLICK, WILLIAM F., HALLERMANN, FRANZ J., FELDT, ROBERT H., and DANIELSON, GORDON K. Aneurysm of aortic cannulation site: successful repair by means of peripheral cannulation, profound hypothermia, and circulatory arrest, 419

FOLTS, JOHN D., YOUNG, WILLIAM P., and ROWE, GEORGE G. Phasic flow through normal and prosthetic mitral valves in unanesthetized dogs, 235

FOREST, FRANÇOIS (*See* STANLEY, BERTRANOU, FOREST, and LANGEVIN), 309

FORKER, ALAN D. (*See* MORGAN, FORKER, BEMILLER, TRUMMER, and FOSBURG), 904

FOSBURG, RICHARD G. (*See* MORGAN, FORKER, BEMILLER, TRUMMER, and FOSBURG), 904

—. (*See* NEUGEBAUER, FOSBURG, and TRUMMER), 882

FOXWORTHY, DONALD T. (*See* NEVILLE, MAGNO, FOXWORTHY, and MOFFAT), 916

FRASER, R. S. (*See* LEE, ZARAGOZA, CALLAGHAN, ROSSALL, and FRASER), 688

FROMM, STEFAN H., and LUCAS, CHARLES E. An unusual complication of chronic diaphragmatic hernia in an adult patient, 654

FURMAN, SEYMOUR, PARKER, BRYAN, and ESCHER, DORIS J. W. Transtelephone pacemaker clinic, 827

G

GAZZANIGA, ALAN B. (*See* O'CONNOR, SHEH, BARTLETT, and GAZZANIGA), 342

GEHA, ALEXANDER S. Pleural empyema: changing etiologic, bacteriologic, and therapeutic aspects, 626

—, MALT, SHERWIN H., NARA, YUKIO, and BAUE, ARTHUR E. Effect of cardiopulmonary bypass on cerebral metabolism, 200

GERBODE, FRANK (*See* AGUILAR, GERBODE, and HILL), 676

—. (*See* HILL, MITTAL, KERTH, and GERBODE), 430

—. (*See* KERTH, SHARMA, HILL, and GERBODE), 14

GERSONY, WELTON M. (*See* BOWMAN, MALM, HAYES, GERSONY, and ELLIS), 85

GOLDBERG, HARRY (*See* ABLAZA, BLANCO, JAVAN, MARANHAO, and GOLDBERG), 315

GOLEBIOWSKI, A. Pulmonary resection in patients over 70 years of age, 265

GOMES, MANUEL M. R., FELDT, ROBERT H., MCGOON, DWIGHT C., and DANIELSON, GORDON K. Long-term results following correction of total anomalous pulmonary venous connection, 253

GOURIN, ANATOLE, STREISAND, ROBERT L., and STUCKEY, JACKSON H. Total cardiopulmonary bypass, myocardial contractility, and the administration of protamine sulfate, 160

GRALNICK, HARVEY R., and FISCHER, R. DARYL. The hemostatic response to open-heart operations, 909

GRAVES, JOHN S. (*See* VEITH, SINHA, GRAVES, BOLEY, and DOUGHERTY), 804

GREENFIELD, LAZAR J. (*See* HARRISON, HINSHAW, COALSON, and GREENFIELD), 795

GUILLEN, JORGE (*See* O'HIGGINS, GUILLEN, and ALDRETE), 870

GURD, F. N. (*See* CHIU, BLUNDELL, SCOTT, and GURD), 141

H

HAIDERER, OTTO, BAHLER, ROBERT, CARSON, PETER, and KENNEDY, JOHN H. Congenital corrected transposition of the great vessels: surgical treatment of associated incompetence of the systemic atrioventricular valve, 933

HAIGHT, CAMERON (*See* TURNEY and HAIGHT), 784

HAJALILOO, J. (*See* HEYAT, MOKHTARI, HAJALILOO, and SHAKIBI), 755

HAJDU, STEVEN I. (*See* MARTINI, HAJDU, and BEATTIE), 33

HALLERMANN, FRANZ J. (*See* FLICK, HALLERMANN, FELDT, and DANIELSON), 419

HALLMAN, GRADY L. (*See* LEACHMAN, COKKINOS, ROCHELLE, ZAMALLOA, MILAM, HALLMAN, and COOLEY), 561

—. (*See* YASHAR, HALLMAN, LEACHMAN, and COOLEY), 724

HARDY, JAMES D. (*See* ALICAN, CAYIRLI, ISIN, and HARDY), 847

HARGROVE, R. L. (*See* WEAVER, BRANFOOT, and HARGROVE), 300

HARRISON, LYNN H., JR., HINSHAW, LERNER B., COALSON, JACQUELINE J., and GREENFIELD, LAZAR J. Effects of *E. coli* septic shock on pulmonary hemodynamics and capillary permeability, 795

HATCHER, CHARLES R., JR., SEHDEVA, JAGJIT, WATERS, WILLIAM C., III, SCHULZE, VICTOR, LOGAN, WILLIAM D., JR., SYMBAS, PANAGIOTIS, and ABBOTT, OSLER A. Primary pulmonary cryptococcosis, 39

HAYES, CONSTANCE J. (*See* BOWMAN, MALM, HAYES, GERSONY, and ELLIS), 85

HEAD, JAMES M. (*See* SHEDBALKAR, HEAD, HEAD, MURPHY, and MASON), 492

HEAD, LOUIS R. (*See* SHEDBALKAR, HEAD, HEAD, MURPHY, and MASON), 492

HENDERSON, R. D. (*See* PEARSON, LANGER, and HENDERSON), 50

HERR, RODNEY H. (*See* LEES, HERR, HILL, MORGAN, OCHSNER, THOMAS, and VAN FLEET), 570

HEYAT, J., MOKHTARI, H., HAJALILOO, J., and SHAKIBI, J. G. Surgical treatment of echinococcal cyst of the heart: report of a case and review of the world literature, 755

HIGGINS, CHARLES B., and MULDER, DONALD G. Chylothorax after surgery for congenital heart disease, 411

HILL, J. DONALD, MITTAL, ARUN K., KERTH, WILLIAM J., and GERBODE, FRANK. Syndrome of acute hemorrhagic intestinal infarction and renal insufficiency following aortic valve replacement for aortic insufficiency, 430

—. (*See* AGUILAR, GERBODE, and HILL), 676

—. (*See* KERTH, SHARMA, HILL, and GERBODE), 14

HILL, JOHN D. (*See* LEES, HERR, HILL, MORGAN, OCHSNER, THOMAS, and VAN FLEET), 570

HINSHAW, LERNER B. (*See* HARRISON, HINSHAW, COALSON, and GREENFIELD), 795

HITCH, DAVID C., and NOLAN, STANTON P. Changes in myocardial performance and total peripheral resistance produced by the administration of chlordiazepoxide, 352

HOLDEFER, WILFRED F., DOWLING, EDMUND A., and KIRKLIN, JOHN W. Hemodynamic, metabolic, and organ function studies in animals subjected to prolonged veno-arterial bypass with the Bramson membrane lung, 217

HOLMES, SCOTT L. (*See* IBEN, PUPELLO, and HOLMES), 556

HORTON, DAVID A. (*See* PRABHAKER, HORTON, BENNETT, TALLEY, and WRIGHT), 885

—. (*See* WRIGHT, MCCREDIE, HORTON, and BENNETT), 242

HUNTER, JAMES A. (*See* OSTERMILLER, SOMERNDIKE, HUNTER, DYE, JAVID, NAJAFI, and JULIAN), 125

HUTCHIN, P., FEEZOR, M. D., WALKER, E. L., and PETERS, R. M. Ventilation and perfusion after transplantation of the lung: studies with intravenous xenon-133, 476

HUTCHINSON, JOHN C. (*See* SCHEINMAN, SULLIVAN, HUTCHINSON, and HYATT), 135

HYATT, KENNETH H. (*See* SCHEINMAN, SULLIVAN, HUTCHINSON, and HYATT), 135

XUM

I

IBARRA-PÉREZ, CARLOS, RODRIQUEZ-TRUJILLO, FRANCISCO, and PÉREZ-REDONDO, HECTOR. Engagement of ventricular myocardium by struts of mitral prosthesis: fatal complication of use of open-cage cardiac valves, 403

IBEN, ALBERT B., PUPELLO, DENNIS F., and HOLMES, SCOTT L. The histologic and hemodynamic evaluation of viable heterograft valves, 556

ISCH, JOHN H. (*See* SHUMACKER, ISCH, and FINNERAN), 304

ISIN, EROL (*See* ALICAN, CAYIRLI, ISIN, and HARDY), 847

ITO, CYRIL S. (*See* RITTENHOUSE, ITO, MOHRI, and MERENDINO), 359

J

JAMES, A. EVERETTE, JR., WHITE, ROBERT I., JR., COOPER, MALCOLM, and WAGNER, HENRY N., JR. Pretreatment diagnostic evaluation with reference to pulmonary scans in lung cancer, 530

JAVAN, MEHDI B. (*See* ABLAZA, BLANCO, JAVAN, MARANHAO, and GOLDBERG), 315

JAVID, H. (*See* OSTERMILLER, SOMERNDIKE, HUNTER, DYE, JAVID, NAJAFI, and JULIAN), 125

JIMÉNEZ-MARTÍNEZ, MANUEL, LÓPEZ-CUÉLLAR, MIGUEL, and QUIÑONES-MORALES, RUBÉN. Isolated tricuspid endocarditis with ventricular septal defect, 665

JOHANSSON, LENNART (*See* ÅBERG, JOHANSSON, MICHAELSSON, and RHEDIN), 212

JOHNSON, LAWRENCE (*See* ZATZKIN, JOHNSON, and ABRAHAMS), 619

JOSEPH, WILLIAM L., MORTON, DONALD L., and ADKINS, PAUL C. Prognostic significance of tumor doubling time in evaluating operability in pulmonary metastatic disease, 23

JOYNER, CLAUDE R. (*See* MACVAUGH and JOYNER), 287

JULIAN, ORMAND C. (*See* OSTERMILLER, SOMERNDIKE, HUNTER, DYE, JAVID, NAJAFI, and JULIAN), 125

K

KAKOS, GERARD S., WILLIAMS, THOMAS E., JR., ASSOR, DEITER, and VASKO, JOHN S. Pulmonary carcinosarcoma: etiologic, therapeutic, and prognostic considerations, 777

KAY, JEROME HAROLD (*See* KITAMURA, MENDEZ, and KAY), 186

KAZAMA, SHIGERU (*See* PIERCE, THOMPSON, KAZAMA, and WALDHAUSEN), 924

KAZEMI, H. (*See* BRUECKE, BURKE, LAM, SHANNON, and KAZEMI), 949

—. (*See* VALENCA, LINCOLN, STRIEDER, and KAZEMI), 857

KEAN, B. H. (*See* MURPHY, KEAN, VENTURINI, and LILLEHEI), 443

KENNEDY, JOHN HINES. Extrapulmonary effects of cancer of the lung and pleura: endocrine, muscular, cutaneous, hematologic, and cardiovascular manifestations not due to metastases, 514

—. (*See* HAIDERER, BAHLER, CARSON, and KENNEDY), 933

KENT, EDWARD (*See* CALINOG, CUSHING, MERKOW, MEHTA, KENT, and MAGOVERN), 811

KEPES, JOHN J. (*See* SETHI and KEPES), 657

KERTH, WILLIAM J., SHARMA, GIRIDHARI, HILL, J. DONALD, and GERBODE, FRANK. A comparison of the late results of replacement and of reconstructive procedures for acquired mitral valve disease, 14

—. (*See* HILL, MITTAL, KERTH, and GERBODE), 430

KHAN, M. A. ALI (*See* BILLIG, KREIDBERG, CHERNOFF, and KHAN), 121

KINGSLEY, WILLIAM B. (*See* RAZZUK, URSCHEL, RACE, KINGSLEY, and PAULSON), 819

KIPHART, R. J. (*See* NAZARIAN, CURRARINO, WEBB, WILLIS, KIPHART, and WILSON), 293

KIRKLIN, JOHN W. (*See* ENGLISH, DIGERNESS, and KIRKLIN), 338

—. (*See* HOLDEFER, DOWLING, and KIRKLIN), 217

—. (*See* KOUCHOUKOS, BARCIA, BARGERON, and KIRKLIN), 70

KITAMURA, SOICHIRO, MENDEZ, ADOLFO, and KAY, JEROME HAROLD. Ventricular septal defect following myocardial infarction: experience with surgical repair through a left ventriculotomy and review of literature, 186

KOLOBOW, THEODOR (*See* ZAPOL, KOLOBOW, DOPPMAN, and PIERCE), 891

KONCZ, J. (*See* RASTAN and KONCZ), 705

KOUCHOUKOS, NICHOLAS T., BARCIA, ALBERTO, BARGERON, LIONEL M., and KIRKLIN, JOHN W. Surgical treatment of congenital pulmonary atresia with ventricular septal defect, 70

KOUTRAS, PHOEBUS, URSCHEL, HAROLD C., JR., and PAULSON, DONALD L. Hamartoma of the lung, 768

KRAKAUER, JOSEPH (*See* PHILLIPS and KRAKAUER), 490

KREIDBERG, MARSHALL B. (*See* BILLIG, KREIDBERG, CHERNOFF, and KHAN), 121

Volume 61
Number 6
June, 1971

L

LAJOS, T. Z. (*See* ABRAHAM, LAJOS, and SCHIMERT), 686

LAM, K. W. (*See* BRUECKE, BURKE, LAM, SHANNON, and KAZEMI), 949

LANGER, B. (*See* PEARSON, LANGER, and HENDERSON), 50

LANGEVIN, LISE (*See* STANLEY, BERTRANOU, FOREST, and LANGEVIN), 309

LAWSON, R. A. M. (*See* CHUNG, LAWSON, BLESOVSKY, and BARNSLEY), 282

LEACHMAN, ROBERT D., COKKINOS, DENNIS V. P., ROCHELLE, DONALD G., ZAMALLOA, OSCAR, MILAM, J. D. HALLMAN, GRADY L., and COOLEY, DENTON A. Serial hemodynamic study of the transplanted heart and correlation with clinical rejection, 561

—. (*See* YASHAR, HALLMAN, LEACHMAN, and COOLEY), 724

LEE, SIMON J. K., ZARAGOZA, A. J., CALLAGHAN, J. C., ROSSALL, R. E., and FRASER, R. S. Hemodynamic changes following mitral valve replacement with the Starr-Edwards and Cutter-Smeloff prostheses, 688

LEES, MARTIN H., HERR, RODNEY H., HILL, JOHN D., MORGAN, CLARENCE L., OCHSNER, A. JOHN, III, THOMAS, CAROLE, and VAN FLEET, DOUGLAS L. Distribution of systemic blood flow of the rhesus monkey during cardiopulmonary bypass, 570

LEONARD, JAMES J. (*See* METZGER, MAGOVERN, and LEONARD), 699

LEVIN, PAUL D., FABER, L. PENFIELD, and CARLETON, RICHARD A. Cardiac herniation after pneumonectomy, 104

LICHTI, E. L. (*See* ELKADI, LICHTI, SAUER, SIMMONS, and ALMOND), 739

LIEBERMAN, YAIR (*See* SCHLESINGER, LIEBERMAN, and NEUFELD), 602

LILLEHEI, C. W. (*See* MURPHY, KEAN, VENTURINI, and LILLEHEI), 443

LIN, CHUNG-YUAN. Lung scan in cardiopulmonary disease: I. Tetralogy of Fallot, 370

LINCOLN, J. C. R. (*See* VALENCA, LINCOLN, STRIEDER, and KAZEMI), 857

LOGAN, WILLIAM D., JR. (*See* HATCHER, SEHDEVA, WATERS, SCHULZE, LOGAN, SYMBAS, and ABBOTT), 39

LÓPEZ-CUÉLLAR, MIGUEL (*See* JIMÉNEZ-MARTÍNEZ, LÓPEZ-CUÉLLAR, and QUIÑONES-MORALES), 665

LUCAS, CHARLES E. (*See* FROMM and LUCAS), 654

M

MCCREDIE, R. M. (*See* WRIGHT, MCCREDIE, HORTON, and BENNETT), 242

MCGOON, DWIGHT C. (*See* DANIELSON, EXARHOS, WEIDMAN, and MCGOON), 228

—. (*See* DANIELSON, MAIR, ONGLEY, WALLACE, and MCGOON), 96

—. (*See* GOMES, FELDT, MCGOON, and DANIELSON), 253

—. (*See* THOMAS and MCGOON), 945

MCLAUGHLIN, JOSEPH S., ROIG, RAYMUND, and WOODRUFF, MICHAEL F. A. Surgical treatment of strictures of the esophagus in patients with scleroderma, 641

MACVAUGH, HORACE, III, and JOYNER, CLAUDE R. Mitral insufficiency due to calcified myxoma: treatment by resection and mitral annuloplasty, 287

MAGNO, MANUEL (*See* NEVILLE, MAGNO, FOXWORTHY, and MOFFAT), 916

MAGOVERN, GEORGE J. (*See* CALINOG, CUSHING, MERKOW, MEHTA, KENT, and MAGOVERN), 811

—. (*See* METZGER, MAGOVERN, and LEONARD), 699

MAHLER, Y. (*See* ROGEL and MAHLER), 466

MAIR, DOUGLAS D. (*See* DANIELSON, MAIR, ONGLEY, WALLACE, and MCGOON), 96

MALM, JAMES R. (*See* BOWMAN, MALM, HAYES, GERSONY, and ELLIS), 85

MALT, SHERWIN H. (*See* GEHA, MALT, NARA, and BAUE), 200

MARANHAO, VLADIR (*See* ABLAZA, BLANCO, JAVAN, MARANHAO, and GOLDBERG), 315

MARTINI, NAEL, HAJDU, STEVEN I., and BEATTIE, EDWARD J., JR. Primary sarcoma of the lung, 33

MARTY, ALAN T., ERAKLIS, ANGELO J., PELLETIER, GERARD A., and MERRILL, EDWARD W. The rheologic effects of hypothermia on blood with high hematocrit values, 735

MASON, JAMES H. (*See* SHEDBALKER, HEAD, HEAD, MURPHY, and MASON), 492

MATLOFF, JACK M., BASS, HARRY, and DALEN, JAMES E. Rhabdomyosarcoma of the left atrium: physiologic responses to surgical therapy, 451

MEAGHER, DENNIS, and SWAN, HENRY. Oxygenation of blood with low oxygen gas mixtures by means of a bubble oxygenator, 729

—. (*See* SWAN and MEAGHER), 956

MEHTA, VIRENDRA S. (*See* CALINOG, CUSHING, MERKOW, MEHTA, KENT, and MAGOVERN), 811

MENDEZ, ADOLFO (*See* KITAMURA, MENDEZ, and KAY), 186

XUM

MERENDINO, K. ALVIN (*See* DILLARD, MOHRI, and MERENDINO), 64

—. (*See* RITTENHOUSE, ITO, MOHRI, and MERENDINO), 359

MERKOW, LEONARD P. (*See* CALINOG, CUSHING, MERKOW, MEHTA, KENT, and MAGOVERN), 811

MERRILL, EDWARD W. (*See* MARTY, ERAKLIS, PELLETIER, and MERRILL), 735

METNI, FOUAD N. (*See* TRIMBLE and METNI), 385

METZGER, CLYDE C., MAGOVERN, GEORGE J., and LEONARD, JAMES J. Ball variance in a sutureless mitral valve prosthesis: a report of 2 cases and a clue to early diagnosis, 699

MEYEROWITZ, BASIL R., and SHEA, LAWRENCE T. The natural history of squamous verrucose carcinoma of the esophagus, 646

MICHAELSSON, MAGNUS (*See* ÅBERG, JOHANSSON, MICHAELSSON, and RHEDIN), 212

MILAM, J. D. (*See* LEACHMAN, COKKINOS, ROCHELLE, ZAMALLOA, MILAM, HALLMAN, and COOLEY), 561

MILLER, ROSCOE E. Removal of a foreign body from the lung by angiographic snare technique, 624

MILLS, MITCHELL (*See* BEASLEY and MILLS), 324

MINOR, GEORGE R. (*See* CALLARD, WRIGHT, WRAY, and MINOR), 181

MITTAL, ARUN K. (*See* HILL, MITTAL, KERTH, and GERBODE), 430

MOFFAT, JEAN E. (*See* NEVILLE, MAGNO, FOXWORTHY, and MOFFAT), 916

MOHRI, HITOSHI (*See* DILLARD, MOHRI, and MERENDINO), 64

—. (*See* RITTENHOUSE, ITO, MOHRI, and MERENDINO), 359

MOKHTARI, H. (*See* HEYAT, MOKHTARI, HAJALILOO, and SHAKIBI), 755

MORGAN, CLARENCE L. (*See* LEES, HERR, HILL, MORGAN, OCHSNER, THOMAS, and VAN FLEET), 570

MORGAN, JACOB R., FORKER, ALAN D., BEMILLER, CARL R., TRUMMER, MAX J., and FOSBURG, RICHARD G. Complete transposition of great vessels without associated defects: case report of first patient to live to be a normal adult: result of surgery, 904

MORIN, P. J. (*See* BEAULIEU, DESPRÉS, BENICHOU, CHARBONNEY, ROY, and MORIN), 968

MORTON, DONALD L. (*See* JOSEPH, MORTON, and ADKINS), 23

MULDER, D. S. (*See* ROSSI, MULDER, and EHRENHAFT), 380

MULDER, DONALD G. (*See* ASTON and MULDER), 547

—. (*See* HIGGINS and MULDER), 411

MULLEN, DONALD C. (*See* ROBICSEK, DAUGHERTY, and MULLEN), 131

—. (*See* ROBICSEK, TAM, DAUGHERTY, and MULLEN), 472

MURPHY, DANIEL J. (*See* SHEDBALKER, HEAD, HEAD, MURPHY, and MASON), 492

MURPHY, T. E., KEAN, B. H., VENTURINI, A., and LILLEHEI, C. W.: Echinococcus cyst of the left ventricle: report of a case with review of the pertinent literature, 443

MURTRA, MARCOS (*See* PUIG-MASSANA, MURTRA, CASTELLS, and REVUELTA), 397

MYERS, M. BERT (*See* CHERRY and MYERS), 587

N

NAGASHIMA, YASUYUKI (*See* SUZUKI, OSHIBE, and NAGASHIMA), 271

NAJAFI, H. (*See* OSTERMILLER, SOMERNDIKE, HUNTER, DYE, JAVID, NAJAFI, and JULIAN), 125

NARA, YUKIO (*See* GEHA, MALT, NARA, and BAUE), 200

NATHAN, MARTIN J. (*See* RAZZUK, URSCHEL, RACE, NATHAN, and PAULSON), 650

NAZARIAN, MANUCHER, CURRARINO, GUIDO, WEBB, WATTS R., WILLIS, KATHRYN, KIPHART, R. J., and WILSON, HUGH E. Accessory diaphragm: report of a case with complete physiological evaluation and surgical correction, 293

NEUFELD, HENRY N. (*See* SCHLESINGER, LIEBERMAN, and NEUFELD), 602

NEUGEBAUER, M. KENITH, FOSBURG, RICHARD G., and TRUMMER, MAX J. Routine antibiotic therapy following pleural space intubation: a reappraisal, 882

NEVILLE, WILLIAM E., MAGNO, MANUEL, FOXWORTHY, DONALD T., and MOFFAT, JEAN, E. Emergency aortic valve replacement in bacterial endocarditis, 916

NEVINS, MICHAEL A. Drug-pacemaker interactions, 610

NIEDBALLA, RICHARD G. (*See* PIFARRÉ, DIETER, and NIEDBALLA), 154

NOLAN, STANTON P. (*See* HITCH and NOLAN), 352

O

OCHSNER, A. JOHN, III (*See* LEES, HERR, HILL, MORGAN, OCHSNER, THOMAS, and VAN FLEET), 570

O'CONNOR, NICHOLAS E., SHEH, JAEN-MIN, BARTLETT, ROBERT H., and GAZZANIGA, ALAN B. Changes in pulmonary extravascular water volume following mitral valve replacement, 342

O'HIGGINS, J. W., GUILLEN, JORGE, and ALDRETE, J. ANTONIO. The effect of helium inhalation on asphyxia in dogs, 870

ONGLEY, PATRICK A. (*See* DANIELSON, MAIR, ONGLEY, WALLACE, and MCGOON), 96

OSHIBE, MITSUMASA (*See* SUZUKI, OSHIBE, and NAGASHIMA), 271

OSTERMILLER, WILLIAM E., JR., DYE, WILLIAM S., and WEINBERG, MILTON. Fungal endocarditis following cardiovascular surgery, 670

—, SOMERNDIKE, J. M., HUNTER, JAMES A., DYE, W. S., JAVID, H., NAJAFI, H., and JULIAN, ORMAND C. Coarctation of the aorta in adult patients, 125

P

PARKER, BRYAN (*See* FURMAN, PARKER, and ESCHER), 827

PARKER, JOHN O. (*See* ARMSTRONG and PARKER), 424

PATTERSON, M. W. H. A radiopaque pulmonary artery band, 975

PAULSON, DONALD L. The changes in the name and status of The Board of Thoracic Surgery, 330 (Edit.)

—. (*See* KOUTRAS, URSCHEL, and PAULSON), 768

—. (*See* RAZZUK, URSCHEL, RACE, ARNDT, and PAULSON), 541

—. (*See* RAZZUK, URSCHEL, RACE, KINGSLEY, and PAULSON), 819

—. (*See* RAZZUK, URSCHEL, RACE, NATHAN, and PAULSON), 650

PEABODY, C. NEWTON. Chondrosarcoma of sternum: report of a 6 year survival, 636

PEARSON, F. G., LANGER, B., and HENDERSON, R. D. Gastroplasty and Belsey hiatus hernia repair: an operation for the management of peptic stricture with acquired short esophagus, 50

PELLETIER, GERARD A. (*See* MARTY, ERAKLIS, PELLETIER, and MERRILL), 735

PÉREZ-REDONDO, HECTOR (*See* IBARRA-PÉREZ, RODRIGUEZ-TRUJILLO, and PÉREZ-REDONDO), 403

PERRY, JOHN F., JR. (*See* DEMUELES, CRAMER, and PERRY), 438

PETERS, RICHARD M. Total repair of tetralogy of Fallot and replacement of aortic valve with Starr-Edwards prosthesis: case report, 599

—. (*See* HUTCHIN, FEEZOR, WALKER, and PETERS), 476

PHILLIPS, STEVEN J. The augmentation of peripheral forward blood flow by prevention of flow reversal with a vein valve, 746

—, and KRAKAUER, JOSEPH. Percutaneous pulmonary artery cannulation, 490

PIERCE, JOSEPH E. (*See* ZAPOL, KOLOBOW, DOPPMAN, and PIERCE), 891

PIERCE, WILLIAM S., DEPAREDES, CARLOS G., RAPHAELY, RUSSELL C., and WALDHAUSEN, JOHN A. Pulmonary resection in infants younger than 1 year of age, 875

—, THOMPSON, WILLIAM M., KAZAMA, SHIGERU, and WALDHAUSEN, JOHN A. Replacement of the pulmonary outflow tract and valve with a formalin-treated porcine heterograft: an experimental study in the dog, 924

PIERMATTEI, D. L. (*See* SWAN and PIERMATTEI), 710

PIFARRÉ, ROQUE, DIETER, RAYMOND A., JR., and NIEDBALLA, RICHARD G. Definitive surgical treatment of the aberrant retroesophageal right subclavian artery in the adult, 154

PIWNICA, A. H., CHETOCHINE, F., SOYER, R., and WINKLER, CL. Traumatic rupture of the aortic arch with disinsertion of the innominate artery: report of a case with successful treatment, 246

—. (*See* CARPENTIER, DELOCHE, DAUPTAIN, SOYER, BLONDEAU, PIWNICA, and DUBOST), 1

POSTLETHWAIT, R. W. (*See* DILLON, VASQUEZ, and POSTLETHWAIT), 605

PRABHAKER, K. N., HORTON, DAVID A., BENNETT, DONALD J., TALLEY, N. A., and WRIGHT, JOHN S. Pseudocyst of the pancreas associated with hydrothorax: a case report and review of the literature, 885

PROVAN, J. L. The management of postpneumonectomy empyema, 107

PUIG-MASSANA, MIGUEL, MURTRA, MARCOS, CASTELLS, EDUARDO, and REVUELTA, JOSÉ M. Repair and long-term follow-up of a subaortic annular aneurysm, 397

PUPELLO, DENNIS F. (*See* IBEN, PUPELLO, and HOLMES), 556

Q

QUIÑONES-MORALES, RUBÉN (*See* JIMÉNEZ-MARTÍNEZ, LÓPEZ-CUÉLLAR, and QUIÑONES-MORALES), 665

R

RACE, GEORGE J. (*See* RAZZUK, URSCHEL, RACE, ARNDT, and PAULSON), 541

—. (*See* RAZZUK, URSCHEL, RACE, KINGSLEY, and PAULSON), 819

XUM

—. (*See* RAZZUK, URSCHEL, RACE, NATHAN, and PAULSON), 650

RAMSEY, HOWARD W. (*See* WILLIAMS, VERNON, DAICOFF, BARTLEY, WHEAT, and RAMSEY), 393

RAPHAELY, RUSSELL C. (*See* PIERCE, DEPAREDES, RAPHAELY, and WALDHAUSEN), 875

RASTAN, H., and KONCZ, J. A new method of closed atrioseptectomy for palliative treatment of complete transposition of the great vessels, 705

RAZZUK, MARUF A., URSCHEL, HAROLD C., JR., RACE, GEORGE J., ARNDT, JEROME H., and PAULSON, DONALD L. Carcinosarcoma of the lung: report of 2 cases and review of the literature, 541

—, —, —, KINGSLEY, WILLIAM B., and PAULSON, DONALD L. Liposarcoma of the mediastinum: case report and review of the literature, 819

—, —, —, NATHAN, MARTIN J., and PAULSON, DONALD L. Pseudosarcoma of the esophagus: a case report, 650

REIS, ROBERT L. (*See* SPOTNITZ, BERMAN, REIS, and EPSTEIN), 167

REVUELTA, JOSÉ M. (*See* PUIG-MASSANA, MURTRA, CASTELLS, and REVUELTA), 397

RHEDIN, BJÖRN (*See* ÅBERG, JOHANSSON, MICHAELSSON, and RHEDIN), 212

RINGOIR, S. (*See* DEROM, BARBIER, RINGOIR, VERSIECK, ROLLY, BERZSENYI, VERMEIRE, and VRINTS), 835

RITTENHOUSE, EDWARD A., ITO, CYRIL S., MOHRI, HITOSHI, and MERENDINO, K. ALVIN. Circulatory dynamics during surface-induced deep hypothermia and after cardiac arrest for 1 hour, 359

ROBICSEK, FRANCIS, DAUGHERTY, HARRY K., and MULLEN, DONALD C. External grafting of aortic aneurysms, 131

—, TAM, WILFRED, DAUGHERTY, HARRY K., and MULLEN, DONALD C. The applicability of Bernoulli's law in the process of enlargement and rupture of aortic aneurysms, 472

ROCHELLE, DONALD G. (*See* LEACHMAN, COKKINOS, ROCHELLE, ZAMALLOA, MILAM, HALLMAN, and COOLEY), 561

RODRIGUEZ-TRUJILLO, FRANCISCO (*See* IBARRA-PÉREZ, RODRIGUEZ-TRUJILLO, and PÉREZ-REDONDO), 403

ROGEL, S., and MAHLER, Y. The Universal pacer: a synchronized-demand pacemaker, 466

ROIG, RAYMUND (*See* MCLAUGHLIN, ROIG, and WOODRUFF), 641

ROLLY, G. (*See* DEROM, BARBIER, RINGOIR, VERSIECK, ROLLY, BERZSENYI, VERMEIRE, and VRINTS), 835

ROSENSWEIG, JACOB (*See* CHATTERJEE and ROSENSWEIG), 405

ROSSALL, R. E. (*See* LEE, ZARAGOZA, CALLAGHAN, ROSSALL, and FRASER), 688

ROSSI, N. P., MULDER, D. S., and EHRENHAFT, J. L. Aorticopulmonary fistula, 380

ROWE, GEORGE G. (*See* FOLTS, YOUNG, and ROWE), 235

ROY, P.-E. (*See* BEAULIEU, DESPRÉS, BENICHOU, CHARBONNEY, ROY, and MORIN), 968

S

SAUER, PAUL E. (*See* ELKADI, LICHTI, SAUER, SIMMONS, and ALMOND), 739

SCHEINMAN, MELVIN M., SULLIVAN, ROBERT W., HUTCHINSON, JOHN C., and HYATT, KENNETH H. Clinical significance of changes in serum magnesium in patients undergoing cardiopulmonary bypass, 135

SCHENK, WORTHINGTON G., JR. (*See* DEDICHEN and SCHENK), 110

SCHIMERT, G. (*See* ABRAHAM, LAJOS, and SCHIMERT), 686

SCHLESINGER, ZWI, LIEBERMAN, YAIR, and NEUFELD, HENRY N. Ventricular aneurysmectomy for severe rhythm disturbances, 602

SCHULZE, VICTOR (*See* HATCHER, SEHDEVA, WATERS, SCHULZE, LOGAN, SYMBAS, and ABBOTT), 39

SCOTT, H. J. (*See* CHIU, BLUNDELL, SCOTT, and GURD), 141

SEHDEVA, J. S. (*See* SYMBAS, SHUFORD, EDWARDS, and SEHDEVA), 149

—. (*See* HATCHER, SEHDEVA, WATERS, SCHULZE, LOGAN, SYMBAS, and ABBOTT), 39

SETHI, GULSHAN, and KEPES, JOHN J. Intrathoracic angiomatous lymphoid hamartomas: a report of 3 cases, 1 of iron refractory anemia and retarded growth, 657

SHAH, PRAKASH A. (*See* BAIRD, SHAH, and AMELI), 456

SHAKIBI, J. G. (*See* HEYAT, MOKHTARI, HAJALILOO, and SHAKIBI), 755

SHANNON, D. C. (*See* BRUECKE, BURKE, LAM, SHANNON, and KAZEMI), 949

SHARMA, GIRIDHARI (*See* KERTH, SHARMA, HILL, and GERBODE), 14

SHEA, LAWRENCE T. (*See* MEYEROWITZ and SHEA), 646

SHEDBALKAR, A. R., HEAD, JAMES, M., HEAD, LOUIS R., MURPHY, DANIEL J., and MASON, JAMES H. Evaluation of talc pleural symphysis in management of malignant pleural effusion), 492

SHEH, JAEN-MIN (*See* O'CONNOR, SHEH, BARTLETT, and GAZZANIGA), 342

SHEN, DAMON (*See* WALLACE, SHEN, BAUM, BLAKEMORE, and ZINSSER), 461

SHUFORD, W. H. (*See* SYMBAS, SHUFORD, EDWARDS, and SEHDEVA), 149

SHUMACKER, HARRIS B, ISCH, JOHN H., and FINNERAN, JOSEPH C. Unusual case of dysphagia due to anomalous right subclavian artery: a new approach for operative treatment, 304

SILVER, MALCOLM D., TUFFNELL, PETER G., and BIGELOW, WILFRED G. Endocarditis caused by *Paecilomyces varioti* affecting an aortic valve allograft, 278

—. (*See* COLAPINTO and SILVER), 938

SIMMONS, EARL M. (*See* ELKADI, LICHTI, SAUER, SIMMONS, and ALMOND), 739

SINHA, S. B. P. (*See* VEITH, SINHA, GRAVES, BOLEY, and DOUGHERTY), 804

SMULLENS, STANTON N., and TEMPLETON, JOHN Y., III. Fatal hypovolemic shock due to massive edema following cardiopulmonary bypass, 348

SOMERNDIKE, J. M. (*See* OSTERMILLER, SOMERNDIKE, HUNTER, DYE, JAVID, NAJAFI, and JULIAN), 125

SOYER, R. (*See* CARPENTIER, DELOCHE, DAUPTAIN, SOYER, BLONDEAU, PIWNICA, and DUBOST), 1

—. (*See* PIWNICA, CHETOCHINE, SOYER, and WINCKLER), 246

SPENCER, FRANK C. (*See* BRENNER, WALLSH, and SPENCER), 258

SPOTNITZ, HENRY M., BERMAN, MICHAEL A., REIS, ROBERT L., and EPSTEIN, STEPHEN E. The effects of synchronized counterpulsation of the pulmonary artery on right ventricular hemodynamics, 167

STANLEY, PAUL, BERTRANOU, ENRIQUE, FOREST, FRANÇOIS, and LANGEVIN, LISE. Toxicity of ethylene oxide sterilization of polyvinyl chloride in open-heart surgery, 309

STRIEDER, D. J. (*See* VALENCA, LINCOLN, STRIEDER, and KAZEMI), 857

STREISAND, ROBERT L. (*See* GOURIN, STREISAND, and STUCKEY), 160

STRUVE-CHRISTENSEN, EIVIN. Diagnosis and treatment of bilateral primary bronchogenic carcinoma, 501

STUCKEY, JACKSON H. (*See* GOURIN, STREISAND, and STUCKEY), 160

SULLIVAN, ROBERT W. (*See* SCHEINMAN, SULLIVAN, HUTCHINSON, and HYATT), 135

SUZUKI, CHIGASHI, OSHIBE, MITSUMASA, and NAGASHIMA, YASUYUKI. Granular cell myoblastoma of the bronchus: report of a case with treatment by upper lobectomy and sleeve resection of the stem bronchus, 271

SWAN, HENRY, and MEAGHER, DENNIS M. Total body bypass in miniature pigs: postperfusion pulmonary hypertension, 956

—, and PIERMATTEI, D. L. Technical aspects of cardiac transplantation in the pig, 710

—. (*See* MEAGHER and SWAN), 729

SYMBAS, P. N., SHUFORD, W. H., EDWARDS, F. K., and SEHDEVA, J. S. Vascular ring: persistent right aortic arch, patent proximal left arch, obliterated distal left arch, and left ligamentum arteriosum, 149

—. (*See* HATCHER, SEHDEVA, WATERS, SCHULZE, LOGAN, SYMBAS, and ABBOTT), 39

T

TALLEY, N. A. (*See* PRABHAKER, HORTON, BENNETT, TALLEY, and WRIGHT), 885

TAM, WILFRED (*See* ROBICSEK, TAM, DAUGHERTY, and MULLEN), 472

TARJAN, PETER (*See* CENTER and TARJAN), 752

TEMPLETON, JOHN Y., III (*See* SMULLENS and TEMPLETON), 348

THOMAS, CAROLE (*See* LEES, HERR, HILL, MORGAN, OCHSNER, THOMAS, and VAN FLEET), 570

THOMAS, CLARENCE S., JR., and MCGOON, DWIGHT C. Isolated massive chylopericardium following cardiopulmonary bypass, 945

THOMPSON, WILLIAM M. (*See* PIERCE, THOMPSON, KAZAMA, and WALDHAUSEN), 924

TRIMBLE, ALAN S., and METNI, FOUAD N. Heart valve replacement with autologous fascia lata using the Ionescu technique: a preliminary report, 385

TRINKLE, J. KENT, and BRYANT, LESTER R. A simple modification of existing respirators to provide constant positive-pressure breathing, 617

—, EDELSTEIN, STEPHEN G., and YOSHONIS, KARL F. Left atrial myxoma: diagnosis and excision, 765

TRUMMER, MAX J. (*See* MORGAN, FORKER, BEMILLER, TRUMMER, and FOSBURG), 904

—. (*See* NEUGEBAUER, FOSBURG, and TRUMMER), 882

TUFFNELL, PETER G. (*See* SILVER, TUFFNELL, and BIGELOW), 278

TURNEY, STEPHEN Z., and HAIGHT, CAMERON. Pulmonary resection for metastatic neoplasms, 784

U

URSCHEL, HAROLD C., JR. (*See* KOUTRAS, URSCHEL, and PAULSON), 768

—. (*See* RAZZUK, URSCHEL, RACE, ARNDT, and PAULSON), 541

XUM

—. (*See* RAZZUK, URSCHEL, RACE, KINGSLEY, and PAULSON), 819

—. (*See* RAZZUK, URSCHEL, RACE, NATHAN, and PAULSON), 650

V

VALENCA, L. M., LINCOLN, J. C. R., STRIEDER, D. J., and KAZEMI, H. Pulmonary vascular response of the reimplanted dog lung to hypoxia, 857

VAN FLEET, DOUGLAS L. (*See* LEES, HERR, HILL, MORGAN, OCHSNER, THOMAS, and VAN FLEET), 570

VASKO, JOHN S. (*See* KAKOS, WILLIAMS, ASSOR, and VASKO), 777

VASQUEZ, M. (*See* DILLON, VASQUEZ, and POSTLETHWAIT), 605

VEITH, FRANK J., SINHA, S. B. P., GRAVES, JOHN S., BOLEY, SCOTT J., and DOUGHERTY, JOSEPH C. Ischemic tolerance of the lung: the effect of ventilation and inflation, 804

VENTURINI, A. (*See* MURPHY, KEAN, VENTURINI, and LILLEHEI), 443

VERMEIRE, P. (*See* DEROM, BARBIER, RINGOIR, VERSIECK, ROLLY, BERZSENYI, VERMEIRE, and VRINTS), 835

VERNON, CHARLES R. (*See* WILLIAMS, VERNON, DAICOFF, BARTLEY, WHEAT, and RAMSEY), 393

VERSIECK, J. (*See* DEROM, BARBIER, RINGOIR, VERSIECK, ROLLY, BERZSENYI, VERMEIRE, and VRINTS), 835

VRINTS, L. (*See* DEROM, BARBIER, RINGOIR, VERSIECK, ROLLY, BERZSENYI, VERMEIRE, and VRINTS), 835

W

WAGNER, HENRY N., JR. (*See* JAMES, WHITE, COOPER, and WAGNER), 530

WALDHAUSEN, JOHN A. (*See* PIERCE, DEPAREDES, RAPHAELY, and WALDHAUSEN), 875

—. (*See* PIERCE, THOMPSON, KAZAMA, and WALDHAUSEN), 924

WALKER, E. L. (*See* HUTCHIN, FEEZOR, WALKER, and PETERS), 476

WALLACE, HERBERT W., SHEN, DAMON, BAUM, STANLEY, BLAKEMORE, WILLIAM S., and ZINSSER, HARRY F. Angina pectoris associated with a pericardial defect, 461

WALLACE, ROBERT B. (*See* DANIELSON, MAIR, ONGLEY, WALLACE, and MCGOON), 96

WALLSH, EUGENE (*See* BRENNER, WALLSH, and SPENCER), 258

WATERS, WILLIAM C. (*See* HATCHER, SEHDEVA, WATERS, SCHULZE, LOGAN, SYMBAS, and ABBOTT), 39

WEAVER, P. C., BRANFOOT, A. C., and HARGROVE, R. L. An endobronchial carcinosarcoma treated by lobectomy, 300

WEBB, WATTS R. (*See* NAZARIAN, CURRARINO, WEBB, WILLIS, KIPHART, and WILSON), 293

WEIDMAN, WILLIAM H. (*See* DANIELSON, EXARHOS, WEIDMAN, and MCGOON), 228

WEINBERG, MILTON (*See* OSTERMILLER, DYE, and WEINBERG), 670

WHEAT, MYRON W., JR. (*See* WILLIAMS, VERNON, DAICOFF, BARTLEY, WHEAT, and RAMSEY), 393

WHITE, ROBERT I., JR. (*See* JAMES, WHITE, COOPER, and WAGNER), 530

WILLIAMS, J. CURTIS, JR., VERNON, CHARLES R., DAICOFF, GEORGE R., BARTLEY, THOMAS D., WHEAT, MYRON W., JR., and RAMSEY, HOWARD W. Hemolysis following mitral valve replacement with the Beall valve prosthesis, 393

WILLIAMS, THOMAS E., JR., (*See* KAKOS, WILLIAMS, ASSOR, and VASKO), 777

WILLIS, KATHRYN (*See* NAZARIAN, CURRARINO, WEBB, WILLIS, KIPHART, and WILSON), 293

WILSON, HUGH E. (*See* NAZARIAN, CURRARINO, WEBB, WILLIS, KIPHART, and WILSON), 293

WINCKLER, CL. (*See* PIWNICA, CHETOCHINE, SOYER, and WINCKLER), 246

WOODRUFF, MICHAEL F. A. (*See* MCLAUGHLIN, ROIG, and WOODRUFF), 641

WRAY, R. CHRISTIE (*See* CALLARD, WRIGHT, WRAY, and MINOR), 181

WRIGHT, CREIGHTON B. (*See* CALLARD, WRIGHT, WRAY, and MINOR), 181

WRIGHT, J. S., MCCREDIE, R. M., HORTON, D. A., and BENNETT, D. J. Giant right coronary artery aneurysm with fistula in childhood, 242

—. (*See* PRABHAKER, HORTON, BENNETT, TALLEY, and WRIGHT), 885

Y

YASHAR, JAMES J., HALLMAN, GRADY L., LEACHMAN, ROBERT D., and COOLEY, DENTON A. Cardiac output and blood volume changes after open-heart surgery, 724

YOSHONIS, KARL F. (*See* TRINKLE, EDELSTEIN, and YOSHONIS), 765

YOUNG, WILLIAM P. (*See* FOLTS, YOUNG, and ROWE), 235

Z

ZAMALLOA, OSCAR (*See* LEACHMAN, COKKINOS, ROCHELLE, ZAMALLOA, MILAM, HALLMAN, and COOLEY), 561

Volume 61
Number 6
June, 1971

ZAPOL, WARREN M., KOLOBOW, THEODOR, DOPPMAN, JOHN, and PIERCE, JOSEPH E. Response of ductus arteriosus and pulmonary blood flow to blood oxygen tension in immersed lamb fetuses perfused through an artificial placenta, 891

ZARAGOZA, A. J. (*See* LEE, ZARAGOZA, CALLAGHAN, ROSSALL, and FRASER), 688

ZATZKIN, HERBERT R., JOHNSON, LAWRENCE, and ABRAHAMS, IRVING. Pulmonary intracavitary aspergilloma fungus ball: report of 3 cases, 619

ZINSSER, HARRY F. (*See* WALLACE, SHEN, BAUM, BLAKEMORE, and ZINSSER), 461

Subject index*

A

Allograft, valve, aortic, endocarditis caused by *Paecilomyces varioti* affecting (Silver et al.), 278

Accessory diaphragm: report of case with complete physiological evaluation and surgical correction (Nazarian et al.), 293

Aberrant retroesophageal right subclavian artery in adult, definitive surgical treatment of (Pifarré et al.), 154

Adult patient(s), coarctation of aorta in (Ostermiller et al.), 125

unusual complication of chronic diaphragmatic hernia in (Fromm and Lucas), 654

American Association for Thoracic Surgery: Program of 1971 Meeting, 333

Board of Thoracic Surgery: Notice of Examinations, 159, 332, 500, 656, 834, 974 (See also under Board)

Aneurysm(s), annular, subaortic, repair and long-term follow-up of (Puig-Massana et al.), 397

aortic, applicability of Bernoulli's law in process of enlargement and rupture of (Robicsek et al.), 472

cannulation site: successful repair by means of peripheral cannulation, profound hypothermia, and circulatory arrest (Flick et al.), 419

external grafting of (Robicsek et al), 131

artery, coronary, right, giant, with fistula in childhood (Wright et al.), 242

false, due to Mucor following repair of coarctation with Dacron prosthesis (Callard et al), 181

postinfarction, gross and microscopic findings 33 months after resection of: left ventricular wound (Dillon et al.), 605

Aneurysmectomy, ventricular, for severe rhythm disturbances (Schlesinger et al.), 602

Angina pectoris associated with pericardial defect (Wallace et al.), 461

Angiographic snare technique, removal of foreign body from lung by (Miller), 624

Angiomatous lymphoid hamartomas, intrathoracic: report of 3 cases, 1 of iron refractory anemia and retarded growth (Sethi and Kepes), 657

Annular aneurysm, subaortic, repair and long-term follow-up of (Puig-Massana et al.), 397

Anomalous pulmonary venous connection, total, long-term results following correction of (Gomes et al.), 253

right subclavian artery, unusual case of dysphagia due to: new approach for operative treatment (Shumacker et al.), 304

Antibiotic therapy, routine, following pleural space intubation: reappraisal (Neugebauer et al.), 882

Aorta in adult patients, coarctation of (Ostermiller et al.), 125

and great vessels due to blunt thoracic trauma, rupture of (DeMeules et al.), 438

Aortic aneurysms, applicability of Bernoulli's law in process of enlargement and rupture of (Robicsek et al.), 472

external grafting of (Robicsek et al.), 131

arch with disinsertion of innominate artery, traumatic rupture of: report of case with successful treatment (Piwnica et al.), 246

cannulation site, aneurysm of: successful repair by means of peripheral cannulation, profound hypothermia, and circulatory arrest (Flick et al.), 419

valve allograft, endocarditis caused by *Paecilomyces varioti* affecting (Silver et al.), 278

prosthesis, Starr-Edwards, cloth cover wear of struts of: case report (Ablaza et al.), 315

replacement for aortic insufficiency, syndrome of acute hemorrhagic intestinal infarction and renal insufficiency following (Hill et al.), 430

emergency, in bacterial endocarditis (Neville et al.), 916

with Starr-Edwards prosthesis, total repair of tetralogy of Fallot and replacement of: case report (Peters), 599

vent efficiency: a quantitative evaluation (Brenner et al.), 258

*January, pp. 1-166; February, pp. 167-332; March, pp. 333-500; April, pp. 501-664; May, pp. 665-834; June, pp. 835-1006.

Aorticopulmonary fistula (Rossi et al.), 380
Arch, aortic, with disinsertion of innominate artery, traumatic rupture of: report of case with successful treatment (Piwnica et al.), 246
right, persistent, patent proximal left arch, obliterated distal left arch, and left ligamentum arteriosum: vascular ring (Symbas et al.), 149
Arrest, cardiac, for 1 hour, circulatory dynamics during surface-induced deep hypothermia and after (Rittenhouse et al.), 359
circulatory, total, correction of heart disease in infancy utilizing deep hypothermia and (Dillard et al.), 64
Arterial thrombosis, pulmonary, massive, following pneumonectomy (Arciniegas and Coates), 487
Arteriosum, ligamentum, left, persistent right aortic arch, patent proximal left arch, and obliterated distal left arch: vascular ring (Symbas et al.), 149
Arteriotomy, brachial, complications of (Armstrong and Parker), 424
Artery(ies) aneurysm, coronary, right, giant, with fistula in childhood (Wright et al.), 242
band, pulmonary, radiopaque (Patterson), 975
cannulation, pulmonary, percutaneous (Phillips and Krakauer), 490
great, by transposition of venous return, repair of transposition of: surgical considerations and results of operation (Danielson et al.), 96
innominate, traumatic rupture of aortic arch with disinsertion of: report of case with successful treatment (Piwnica et al.), 246
mammary, internal, implanted into myocardium, initial flow through (Baird et al.), 456
pulmonary, on right ventricular hemodynamics, effects of synchronized counterpulsation of (Spotnitz et al.), 167
subclavian, right, anomalous, unusual case of dysphagia due to: new approach for operative treatment (Shumacker et al.), 304
retroesophageal, aberrant, in adult, definitive surgical treatment of (Pifarré et al.), 154
Aspergilloma fungus ball, pulmonary intracavitary: report of 3 cases (Zatzkin et al.), 619
Asphyxia in dogs, effect of helium inhalation on (O'Higgins et al.), 870
Atresia, pulmonary, congenital, with ventricular septal defect, surgical treatment of (Kouchoukos et al.), 70
with intact ventricular septum (Bowman et al.), 85
Atrial myxoma, left: diagnosis and excision (Trinkle et al.), 765
shunt, right,–left ventricular, of septic origin: presentation of case with surgical closure (Åberg et al.), 212
Atrioseptectomy, closed, for palliative treatment of complete transposition of great vessels, new method of (Rastan and Koncz), 705
Atrioventricular valve, systemic, surgical treatment of associated incompetence of: congenital corrected transposition of great vessels (Haiderer et al.), 933
Atrium, left, rhabdomyosarcoma of: physiologic responses to surgical therapy (Matloff et al.), 451
Autologous fascia lata using Ionescu technique, heart valve replacement with: preliminary report (Trimble and Metni), 385

B

Bacterial endocarditis, emergency aortic valve replacement in (Neville et al.), 916
Bacteriologic, etiologic, and therapeutic aspects, changing: pleural empyema (Geha), 626
Ball variance in sutureless mitral valve prosthesis: report of 2 cases and clue to early diagnosis (Metzger et al.), 699
Balloon counterpulsation, intra-aortic, evaluation of (Chatterjee and Rosensweig), 405
Band, artery, pulmonary, radiopaque (Patterson), 975
Beall valve prosthesis, hemolysis following mitral valve replacement with (Williams et al.), 393
Belsey hiatus hernia repair, gastroplasty and: operation for management of peptic stricture with acquired short esophagus (Pearson et al.), 50
Bernoulli's law in process of enlargement and rupture of aortic aneurysms, applicability of (Robicsek et al.), 472
Bilateral lung reimplantation, one-stage, in dog, surgical technique of (Alican et al.), 847
primary bronchogenic carcinoma, diagnosis and treatment of (Struve-Christensen), 501
Blood flow, forward, peripheral, by prevention of flow reversal with vein valve, augmentation of (Phillips), 746
pulmonary, to blood oxygen tension in immersed lamb fetuses perfused through artificial placenta, response of ductus arteriosus and (Zapol et al.), 891
systemic, of rhesus monkey during cardiopulmonary bypass, distribution of (Lees et al.), 570
with high hematocrit values, rheologic effects of hypothermia on (Marty et al.), 735

XUM

Blood—Cont'd
with low oxygen gas mixtures by means of bubble oxygenator, oxygenation of (Meagher and Swan), 729
volume changes after open-heart surgery, cardiac output and (Yashar et al.), 724
Board of Thoracic Surgery, changes in name and status of (Paulson), 330 (Edit.)
(See also under American)
Brachial arteriotomy, complications of (Armstrong and Parker), 424
Breathing, positive-pressure, constant, simple modification of existing respirators to provide (Trinkle and Bryant), 617
Bronchial carcinosarcoma (Chaudhuri), 319
Bronchogenic carcinoma, primary, bilateral, diagnosis and treatment of (Struve-Christensen), 501
Bronchus, granular cell myoblastoma of: report of case with treatment by upper lobectomy and sleeve resection of stem bronchus (Suzuki et al.), 271
Bubble oxygenator, oxygenation of blood with low oxygen gas mixtures by means of (Meagher and Swan), 729
Bypass, body, total, in miniature pigs: postperfusion pulmonary hypertension (Swan and Meagher), 956
cardiopulmonary, on cerebral metabolism, effect of (Geha et al.), 200
clinical significance of changes in serum magnesium in patients undergoing (Scheinman et al.), 135
distribution of systemic blood flow of rhesus monkey during (Lees et al.), 570
fatal hypovolemic shock due to massive edema following (Smullens and Templeton), 348
isolated massive chylopericardium following (Thomas and McGoon), 945
total, myocardial contractility, and administration of protamine sulfate (Gourin et al.), 160
veno-arterial, prolonged, with Bramson membrane lung, hemodynamic, metabolic, and organ function studies in animals subjected to (Holdefer et al.), 217

C

Cancer of lung and pleura, extrapulmonary effects of: endocrine, muscular, cutaneous, hematologic, and cardiovascular manifestations not due to metastases (Kennedy), 514
pretreatment diagnostic evaluation with reference to pulmonary scans in (James et al.), 530
Cannulation, artery, pulmonary, percutaneous (Phillips and Krakauer), 490
Cannulation—Cont'd
site, aortic, aneurysm of: successful repair by means of peripheral cannulation, profound hypothermia, and circulatory arrest (Flick et al.), 419
in patients undergoing open-heart surgery, preoperative and postoperative evaluation of: use of Doppler ultrasonic flowmeter (Elkadi et al.), 739
Capillary permeability, effects of *E. coli* septic shock on pulmonary hemodynamics and (Harrison et al.), 795
Carcinoma, bronchogenic, primary, bilateral, diagnosis and treatment of (Struve-Christensen), 501
verrucose, squamous, of esophagus, natural history of (Meyerowitz and Shea), 646
Carcinosarcoma, bronchial (Chaudhuri), 319
endobronchial, treated by lobectomy (Weaver et al.), 300
of lung: report of 2 cases and review of literature (Razzuk et al.), 541
pulmonary: etiologic, therapeutic, and prognostic considerations (Kakos et al.), 777
Cardiac arrest for 1 hour, circulatory dynamics during surface-induced deep hypothermia and after (Rittenhouse et al.), 359
herniation after pneumonectomy (Levin et al.), 104
output and blood volume changes after open-heart surgery (Yashar et al.), 724
and its regional distribution in dog: measurement with electromagnetic flowmeter (Dedichen and Schenk), 110
stimulation threshold by transcutaneous needle puncture, measurement of (Center and Tarjan), 752
surgery, neuropathologic complications of (Aguilar et al.), 676
transplantation in pig, technical aspects of (Swan and Piermattei), 710
valve replacement: 7 year follow-up (Aston and Mulder), 547
Cardiopulmonary bypass on cerebral metabolism, effect of (Geha et al.), 200
clinical significance of changes in serum magnesium in patients undergoing (Scheinman et al.), 135
distribution of systemic blood flow of rhesus monkey during (Lees et al.), 570
fatal hypovolemic shock due to massive edema following (Smullens and Templeton), 348
isolated massive chylopericardium following (Thomas and McGoon), 945
total, myocardial contractility, and administration of protamine sulfate (Gourin et al.), 160
disease, lung scan in: I. Tetralogy of Fallot (Lin), 370

Cardiovascular surgery, fungal endocarditis following (Ostermiller et al.), 670
Cerebral metabolism, effect of cardiopulmonary bypass on (Geha et al.), 200
Childhood, giant right coronary artery aneurysm with fistula in (Wright et al.), 242
Chlordiazepoxide, changes in myocardial performance and total peripheral resistance produced by administration of (Hitch and Nolan), 352
Chondrosarcoma of sternum: report of 6 year survival (Peabody), 636
Chylopericardium, massive, isolated, following cardiopulmonary bypass (Thomas and McGoon), 945
Chylothorax after surgery for congenital heart disease (Higgins and Mulder), 411
Circulation, extracorporeal, intestinal lesions and circulating lysosomal enzymes in: clinical and experimental study (Chiu et al.), 141
Circulatory arrest, total, correction of heart disease in infancy utilizing deep hypothermia and (Dillard et al.), 64
dynamics during surface-induced deep hypothermia and after cardiac arrest for 1 hour (Rittenhouse et al.), 359
Clinic, pacemaker, transtelephone (Furman et al.), 827
Clinical significance of changes in serum magnesium in patients undergoing cardiopulmonary bypass (Scheinman et al.), 135
Cloth cover wear of struts of Starr-Edwards aortic valve prosthesis: case report (Ablaza et al.), 315
Coarctation of aorta in adult patients (Ostermiller et al.), 125
with Dacron prosthesis, false aneurysm due to Mucor following repair of (Callard et al.), 181
Colloid osmotic pressure during and shortly after open intracardiac operation, changes in (English et al.), 338
Complications, neuropathologic, of cardiac surgery (Aguilar et al.), 676
Congenital corrected transposition of great vessels: surgical treatment of associated incompetence of systemic atrioventricular valve (Haiderer et al.), 933
heart disease, chylothorax after (Higgins and Mulder), 411
pulmonary atresia with ventricular septal defect, surgical treatment of (Kouchoukos et al.), 70
Constant positive-pressure breathing, simple modification of existing respirators to provide (Trinkle and Bryant), 617
Contractility, myocardial, and administration of protamine sulfate, total cardiopulmonary bypass (Gourin et al.), 160
Coronary artery aneurysm, right, giant, with fistula in childhood (Wright et al.), 242
vein potassium levels in experimental myocardial infarction, relationship to ventricular fibrillation of early tissue sodium and potassium shifts and (Cherry and Myers), 587
Counterpulsation, balloon, intra-aortic, evaluation of (Chatterjee and Rosensweig), 405
synchronized, of pulmonary artery on right ventricular hemodynamics, effects of (Spotnitz et al.), 167
Cryptococcosis, pulmonary, primary (Hatcher et al.), 39
Cyst, echinococcal, of heart, surgical treatment of: report of case and review of world literature (Heyat et al.), 755
Echinococcus, of left ventricle: report of case with review of pertinent literature (Murphy et al.), 443
Cystectomy, chylous, with prosthetic reconstruction of diaphragm and esophageal hiatus (Beasley and Mills), 324

D

Defects, associated, complete transposition of great vessels without: case report of first patient to live to be normal adult: result of surgery (Morgan et al.), 904
pericardial, angina pectoris associated with (Wallace et al.), 461
septal, ventricular, following myocardial infarction: experience with surgical repair through left ventriculotomy and review of literature (Kitamura et al.), 186
isolated tricuspid endocarditis with (Jiménez-Martínez et al.), 665
surgical treatment of congenital pulmonary atresia with (Kouchoukos et al.), 70
Diaphragm, accessory: report of case with complete physiological evaluation and surgical correction (Nazarian et al.), 293
and esophageal hiatus, chylous cystectomy with prosthetic reconstruction of (Beasley and Mills), 324
Diaphragmatic hernia, chronic, in adult patient, unusual complication of (Fromm and Lucas), 654
Disease, heart, congenital, chylothorax after surgery for (Higgins and Mulder), 411
Doppler ultrasonic flowmeter, use of: preoperative and postoperative evaluation of cannulation site in patients undergoing open-heart surgery (Elkadi et al.), 739
Doubling time, tumor, in evaluating operability in pulmonary metastatic disease, prognostic significance of (Joseph et al.), 23
Drug-pacemaker interactions (Nevins), 610

XUM

Ductus arteriosus and pulmonary blood flow to blood oxygen tension in immersed lamb fetuses perfused through artificial placenta, response of (Zapol et al.), 891
Dynamics, circulatory, during surface-induced deep hypothermia and after cardiac arrest for 1 hour (Rittenhouse et al.), 359
Dysphagia due to anomalous right subclavian artery, unusual case of: new approach for operative treatment (Shumacker et al.), 304

E

Echinococcal cyst of heart, surgical treatment of: report of case and review of world literature (Heyat et al.), 755
Echinococcus cyst of left ventricle: report of case with review of pertinent literature (Murphy et al.), 443
Edema, massive, following cardiopulmonary bypass, fetal hypovolemic shock due to (Smullens and Templeton), 348
Editorial: Changes in name and status of Board of Thoracic Surgery (Paulson), 330
Myocardial revascularization—direct or indirect (Effler), 498
Effusion, pleural, malignant, evaluation of talc pleural symphysis in management of (Shedbalkar et al.), 492
Electrode, modified, xiphoid mediastinoscopy for permanent myocardial implantation of: preliminary report (Beaulieu et al.), 968
Electromagnetic flowmeter, measurement with: cardiac output and its regional distribution in dog (Dedichen and Schenk), 110
Embolism, fat, pulmonary, pathophysiology of (Bruecke et al.), 949
Empyema, pleural: changing etiologic, bacteriologic, and therapeutic aspects (Geha), 626
postpneumonectomy, management of (Provan), 107
Endobronchial carcinosarcoma treated by lobectomy (Weaver et al.), 300
Endocarditis, bacterial, emergency aortic valve replacement in (Neville et al.), 916
caused by *Paecilomyces varioti* affecting aortic valve allograft (Silver et al.), 278
fungal, following cardiovascular surgery (Ostermiller et al.), 670
tricuspid, isolated, with ventricular septal defect (Jiménez-Martínez et al.), 665
Enzymes, lysosomal, circulating, in extracorporeal circulation, intestinal lesions and: clinical and experimental study (Chiu et al.), 141
Escherichia coli septic shock on pulmonary hemodynamics and capillary permeability, effects of (Harrison et al.), 795
Esophageal hiatus, chylous cystectomy with prosthetic reconstruction of diaphragm and (Beasley and Mills), 324
Esophagectomy or repair of hiatus hernia with vagotomy, pyloromyotomy, new technique in conjunction with (Chung et al.), 282
Esophagus, natural history of squamous verrucose carcinoma of (Meyerowitz and Shea), 646
palliative intubation of: analysis of 59 cases (Ammann and Collis), 863
in patients with scleroderma, surgical treatment of structures of (McLaughlin et al.), 641
pseudosarcoma of: case report (Razzuk et al.), 650
short, acquired, operation for management of peptic stricture with: gastroplasty and Belsey hiatus hernia repair (Pearson et al.), 50
Ethylene oxide sterilization of polyvinyl chloride in open-heart surgery, toxicity of (Stanley et al.), 309
Etiologic, bacteriologic, and therapeutic aspects, changing: pleural empyema (Geha), 626
Extracorporeal circulation, intestinal lesions and circulating lysosomal enzymes in: clinical and experimental study (Chiu et al.), 141
Extrapulmonary effects of cancer of lung and pleura: endocrine, muscular, cutaneous, hematologic, and cardiovascular manifestations not due to metastases (Kennedy), 514
Extravascular water volume, pulmonary, following mitral valve replacement, changes in (O'Connor et al.), 342

F

Fallot, tetralogy of, and replacement of aortic valve with Starr-Edwards prosthesis, total repair of: case report (Peters), 599
I. Lung scan in cardiopulmonary disease (Lin), 370
Fascia lata, autologous, using Ionescu technique, heart valve replacement with: preliminary report (Trimble and Metni), 385
Fat embolism, pulmonary, pathophysiology of (Bruecke et al.), 949
Fetuses, lamb, immersed, perfused through artificial placenta, response of ductus arteriosus and pulmonary blood flow to blood oxygen tension in (Zapol et al.), 891
Fibrillation, ventricular, of early tissue sodium and potassium shifts and coronary vein potassium levels in experimental myocardial infarction, relationship to (Cherry and Myers), 587

XUM

Fistula, aorticopulmonary (Rossi et al.), 380
in childhood, giant right coronary artery aneurysm with (Wright et al.), 242
Flow, blood, forward, peripheral, by prevention of flow reversal with vein valve, augmentation of (Phillips), 746
systemic, of rhesus monkey during cardiopulmonary bypass, distribution of (Lees et al.), 570
initial, through internal mammary artery implanted into myocardium (Baird et al.), 456
phasic, through normal and prosthetic mitral valves in unanesthetized dogs (Folts et al.), 235
Flowmeter, electromagnetic, measurement with: cardiac output and its regional distribution in dog (Dedichen and Schenk), 110
ultrasonic, Doppler, use of: preoperative and postoperative evaluation of cannulation site in patients undergoing open-heart surgery (Elkadi et al.), 739
Formalin-treated porcine heterograft, replacement of pulmonary outflow tract and valve with: experimental study in dog (Pierce et al.), 924
Fungal endocarditis following cardiovascular surgery (Ostermiller et al.), 670
Fungus ball, pulmonary intracavitary aspergilloma: report of 3 cases (Zatzkin et al.), 619

G

Gastroplasty and Belsey hiatus hernia repair: operation for management of peptic stricture with acquired short esophagus (Pearson et al.), 50
Grafting, external, of aortic aneurysms (Robicsek et al.), 131
Granular cell myoblastoma of bronchus: report of case with treatment by upper lobectomy and sleeve resection of stem bronchus (Suzuki et al.), 271

H

Hamartoma(s) of lung (Koutras et al.), 768
lymphoid, angiomatous, intrathoracic: report of 3 cases, 1 of iron refractory anemia and retarded growth (Sethi and Kepes), 657
Heart disease, congenital, chylothorax after surgery for (Higgins and Mulder), 411
in infancy utilizing deep hypothermia and total circulatory arrest, correction of (Dillard et al.), 64
surgical treatment of echinococcal cyst of: report of case and review of world literature (Heyat et al.), 755
Heart—Cont'd
transplanted, and correlation with clinical rejection, serial hemodynamic study of (Leachman et al.), 561
valve replacement with autologous fascia lata using Ionescu technique: preliminary report (Trimble and Metni), 385
prosthetic: causes of early postoperative death (Colapinto and Silver), 938
Helium inhalation on asphyxia in dogs, effect of (O'Higgins et al.), 870
Hematocrit values, high, rheologic effects of hypothermia on blood with (Marty et al.), 735
Hemodynamic changes following mitral valve replacement with Starr-Edwards and Cutter-Smeloff prostheses (Lee et al.), 688
and histologic evaluation of viable heterograft valves (Iben et al.), 556
study, serial, of transplanted heart and correlation with clinical rejection (Leachman et al.), 561
Hemodynamics, pulmonary, and capillary, permeability, effects of *E. coli* septic shock on (Harrison et al.), 795
ventricular, right, effects of synchronized counterpulsation of pulmonary artery on (Spotnitz et al.), 167
Hemolysis following mitral valve replacement with Beall valve prosthesis (Williams et al.), 393
Hemorrhagic intestinal infarction, acute, and renal insufficiency following aortic valve replacement for aortic insufficiency, syndrome of (Hill et al.), 430
Hemostatic response to open-heart operations (Gralnick and Fischer), 909
Hernia, diaphragmatic, chronic, in adult patient, unusual complication of (Fromm and Lucas), 654
hiatus, with vagotomy, pyloromyotomy, new technique in conjunction with esophagectomy or repair of (Chung et al.), 282
repair, hiatus, Belsey, gastroplasty and: operation for management of peptic stricture with acquired short esophagus (Pearson et al.), 50
Herniation, cardiac, after pneumonectomy (Levin et al.), 104
Heterograft, porcine, formalin-treated, replacement of pulmonary outflow tract and valve with: experimental study in dog (Pierce et al.), 924
valves, viable, histologic and hemodynamic evaluation of (Iben et al.), 556
Hiatus, esophageal, chylous cystectomy with prosthetic reconstruction of diaphragm and (Beasley and Mills), 324

Hiatus—Cont'd
hernia repair, Belsey, gastroplasty and: operation for management of peptic stricture with acquired short esophagus (Pearson et al.), 50
with vagotomy, pyloromyotomy, new technique in conjunction with esophagectomy or repair of (Chung et al.), 556
Histologic and hemodynamic evaluation of viable heterograft valves (Iben et al.), 556
Homotransplantation, lung, in man, 10 month survival after (Derom et al.), 835
Hydrothorax, pseudocyst of pancreas associated with: case report and review of literature (Prabhaker et al.), 885
Hypertension, pulmonary, postperfusion: total body bypass in miniature pigs (Swan and Meagher), 956
Hypothermia on blood with high hematocrit values, rheologic effects of (Marty et al.), 735
deep, surface-induced, and after cardiac arrest for 1 hour, circulatory dynamics during (Rittenhouse et al.), 359
and total circulatory arrest, correction of heart disease in infancy utilizing (Dillard et al.), 64
Hypovolemic shock, fatal, due to massive edema following cardiopulmonary bypass (Smullens and Templeton), 348

I

Implantation, myocardial, permanent, of modified electrode, xiphoid mediastinoscopy for: preliminary report (Beaulieu et al.), 968
Incompetence, associated, of systemic atrioventricular valve, surgical treatment of: congenital corrected transposition of great vessels (Haiderer et al.), 933
Infancy utilizing deep hypothermia and total circulatory arrest, correction of heart disease (Dillard et al.), 64
Infants younger than 1 year of age, pulmonary resection in (Pierce et al.), 875
Infarction, intestinal, hemorrhagic, acute, and renal insufficiency following aortic valve replacement for aortic insufficiency, syndrome of (Hill et al.), 430
myocardial, experimental, relationship to ventricular fibrillation of early tissue sodium and potassium shifts and coronary vein potassium levels in (Cherry and Myers), 587
ventricular septal defect following: experience with surgical repair through left ventriculotomy and review of literature (Kitamura et al.), 186
Inflation and ventilation, effect of: ischemic tolerance of lung (Veith et al.), 804
Inhalation, helium, on asphyxia in dogs, effect of (O'Higgins et al.), 870
Innominate artery, traumatic rupture of aortic arch with disinsertion of: report of case with successful treatment (Piwnica et al.), 246
Insufficiency, mitral, due to calcified myxoma: treatment by resection and mitral annuloplasty (MacVaugh and Joyner), 287
and tricuspid, new reconstructive operation for correction of (Carpentier et al.), 1
renal, following aortic valve replacement for aortic insufficiency, syndrome of acute hemorrhagic intestinal infarction and (Hill et al.), 430
with subaortic and subpulmonic stenosis, mitral stenosis and: report of case of successful surgical treatment (Billig et al.), 121
Interactions, drug-pacemaker (Nevins), 610
Intestinal infarction, hemorrhagic, acute, and renal insufficiency following aortic valve replacement for aortic insufficiency, syndrome of (Hill et al.), 430
lesions and circulating lysosomal enzymes in extracorporeal circulation: clinical and experimental study (Chiu et al.), 141
Intra-aortic balloon counterpulsation, evaluation of (Chatterjee and Rosensweig), 405
Intracardiac operation, open, changes in colloid osmotic pressure during and shortly after (English et al.), 338
Intracavitary aspergilloma fungus ball, pulmonary: report of 3 cases (Zatzkin et al.), 619
Intrathoracic angiomatous lymphoid hamartomas: report of 3 cases, 1 of iron refractory anemia and retarded growth (Sethi and Kepes), 657
Intubation, palliative, of esophagus: analysis of 59 cases (Ammann and Collis), 863
space, pleural, routine antibiotic therapy following: reappraisal (Neugebauer et al.), 882
Ionescu technique, heart valve replacement with autologous fascia lata using: preliminary report (Trimble and Metni), 385
Ischemic tolerance of lung: effect of ventilation and inflation (Veith et al.), 804

L

Law, Bernoulli's, in process of enlargement and rupture of aortic aneurysms, applicability of (Robicsek et al.), 472
Lesions, intestinal, and circulating lysosomal enzymes in extracorporeal circulation: clinical and experimental study (Chiu et al.), 141

Ligamentum arteriosum, left, persistent right aortic arch, patent proximal left arch, obliterated distal left arch, and: vascular ring (Symbas et al.), 149
Liposarcoma of mediastinum: case report and review of literature (Razzuk et al.), 819
Lobectomy, endobronchial carcinosarcoma treated by (Weaver et al.), 300
Lung by angiographic snare technique, removal of foreign body from (Miller), 624
cancer, pretreatment diagnostic evaluation with reference to pulmonary scans in (James et al.), 530
carcinosarcoma of: report of 2 cases and review of literature (Razzuk et al.), 541
dog, reimplanted, to hypoxia, pulmonary vascular response of (Valenca et al.), 857
hamartoma of (Koutras et al.), 768
homotransplantation in man, 10 month survival after (Derom et al.), 835
ischemic tolerance of: effect of ventilation and inflation (Veith et al.), 804
membrane, Bramson, hemodynamic, metabolic, and organ function studies in animals subjected to prolonged veno-arterial bypass with (Holdefer et al.), 217
and pleura, extrapulmonary effects of cancer of: endocrine, muscular, cutaneous, hematologic, and cardiovascular manifestations not due to metastases (Kennedy), 514
primary sarcoma of (Martini et al.), 33
reimplantation, bilateral, one-stage, in dog, surgical technique of (Alican et al.), 847
scan in cardiopulmonary disease: I. Tetralogy of Fallot (Lin), 370
ventilation and perfusion after transplantation of: studies with intravenous xenon-133 (Hutchin et al.), 476
Lymphoid hamartomas, angiomatous, intrathoracic: report of 3 cases, 1 of iron refractory anemia and retarded growth (Sethi and Kepes), 657
Lysosomal enzymes, circulating, in extracorporeal circulation, intestinal lesions and: clinical and experimental study (Chiu et al.), 141

M

Magnesium, serum, in patients undergoing cardiopulmonary bypass, clinical significance of changes in (Scheinman et al.), 135
Malignant pleural effusion, evaluation of talc pleural symphysis in management of (Shedbalkar et al.), 492
Mammary artery, internal, implanted into myocardium, initial flow through (Baird et al.), 456
Mediastinoscopy, xiphoid, for permanent myocardial implantation of modified electrode: preliminary report (Beaulieu et al.), 968
Mediastinum, liposarcoma of: case report and review of literature (Razzuk et al.), 819
Membrane lung, Bramson, hemodynamic, metabolic, and organ function studies in animals subjected to prolonged veno-arterial bypass with (Holdefer et al.), 217
Metal poppet and rigid prosthetic valve (Detmer and Braunwald), 175
Metabolism, cerebral, effect of cardiopulmonary bypass on (Geha et al.), 200
Metastatic disease, pulmonary, prognostic significance of tumor doubling time in evaluating operability in (Joseph et al.), 23
neoplasms, pulmonary resection for (Turney and Haight), 784
Mitral insufficiency due to calcified myxoma: treatment by resection and mitral annuloplasty (MacVaugh and Joyner), 287
prosthesis, engagement of ventricular myocardium by struts of: fatal complication of use of open-cage cardiac valves (Ibarra-Pérez et al.), 403
stenosis and insufficiency with subaortic and subpulmonic stenosis: report of case of successful surgical treatment (Billig et al.), 121
and tricuspid insufficiency, new reconstructive operation for correction of (Carpentier et al.), 1
valve disease, acquired, comparison of late results of replacement and of reconstructive procedures for (Kerth et al.), 14
prosthesis, sutureless, ball variance in: report of 2 cases and clue to early diagnosis (Metzger et al.), 699
prosthetic and normal, in unanesthetized dogs, phasic flow through (Folts et al.), 235
replacement with Beall valve prosthesis, hemolysis following (Williams et al.), 393
changes in pulmonary extravascular water volume following (O'Connor et al.), 342
with Starr-Edwards and Cutter-Smeloff prostheses, hemodynamic changes following (Lee et al.), 688
through left ventricle, replacement of: new approach (Abraham et al.), 686
Mucor following repair of coarctation with Dacron prosthesis, false aneurysm due to (Callard et al.), 181
Myoblastoma, cell, granular, of bronchus: report of case with treatment by upper lobectomy and sleeve resection of stem bronchus (Suzuki et al.), 271

XUM

Myocardial contractility, administration, of protamine sulfate, and total cardiopulmonary bypass (Gourin et al.), 160
implantation, permanent, of modified electrode, xiphoid mediastinoscopy for: preliminary report (Beaulieu et al.), 968
infarction, experimental, relationship to ventricular fibrillation of early tissue sodium and potassium shifts and coronary vein potassium levels in (Cherry and Myers), 587
ventricular septal defect following: experience with surgical repair through left ventriculotomy and review of literature (Kitamura et al.), 186
performance and total peripheral resistance produced by administration of chlordiazepoxide (Hitch and Nolan), 352
revascularization—direct or indirect (Effler), 498 (Edit.)
Myocardium, initial flow through internal mammary artery implanted into (Baird et al.), 456
ventricular, by struts of mitral prosthesis, engagement of: fatal complication of use of open-cage cardiac valves (Ibarra-Pérez et al.), 403
Myxoma, atrial, left: diagnosis and excision (Trinkle et al.), 765
calcified, mitral insufficiency due to: treatment by resection and mitral annuloplasty (MacVaugh and Joyner), 287

N

Needle puncture, transcutaneous, measurement of cardiac stimulation threshold by (Center and Tarjan), 752
Neoplasms, metastatic, pulmonary resection for (Turney and Haight), 784
Neuropathologic complications of cardiac surgery (Aguilar et al.), 676

O

One-stage bilateral lung reimplantation in dog, surgical technique of (Alican et al.), 847
Open-heart operations, hemostatic response to (Gralnick and Fischer), 909
surgery, cardiac output and blood volume changes after (Yashar et al.), 724
preoperative and postoperative evaluation of cannulation site in patients undergoing: use of Doppler ultrasonic flowmeter (Elkadi et al.), 739
toxicity of ethylene oxide sterilization of polyvinyl chloride in (Stanley et al.), 309
Osmotic pressure, colloid, during and shortly after open intracardiac operation, changes in (English et al.), 338
Outflow tract, pulmonary, and valve with formalin-treated porcine heterograft, replacement of: experimental study in dog (Pierce et al.), 924
Output, cardiac, and blood volume changes after open-heart surgery (Yashar et al.), 724
and its regional distribution in dog: measurement with electromagnetic flowmeter (Dedichen and Schenk), 110
Oxygen tension, blood, in immersed lamb fetuses perfused through artificial placenta, response of ductus arteriosus and pulmonary blood flow to (Zapol et al.), 891
Oxygenation of blood with low oxygen gas mixtures by means of bubble oxygenator (Meagher and Swan), 729
Oxygenator, bubble, oxygenation of blood with low oxygen gas mixtures by means of (Meagher and Swan), 729

P

Pacemaker clinic, transtelephone (Furman et al.), 827
-drug interactions (Nevins), 610
synchronized-demand: Universal pacer (Rogel and Mahler), 466
Pacer, Universal: synchronized-demand pacemaker (Rogel and Mahler), 466
Paecilomyces varioti affecting aortic valve allograft, endocarditis caused by (Silver et al.), 278
Palliative intubation of esophagus: analysis of 59 cases (Ammann and Collis), 863
treatment of complete transposition of great vessels, new method of closed atrioseptectomy for (Rastan and Koncz), 705
Pancreas associated with hydrothorax, pseudocyst of: case report and review of literature (Prabhaker et al.), 885
Pathophysiology of pulmonary fat embolism (Bruecke et al.), 949
Pectoris, angina, associated with pericardial defect (Wallace et al.), 461
Peptic stricture with acquired short esophagus, operation for management of: gastroplasty and Belsey hiatus hernia repair (Pearson et al.), 50
Performance, myocardial, and total peripheral resistance produced by administration of chlordiazepoxide (Hitch and Nolan), 352
Perfusion and ventilation after transplantation of lung: studies with intravenous xenon-133 (Hutchin et al.), 476
Pericardial defect, angina pectoris associated with (Wallace et al.), 461
Peripheral forward blood flow by prevention of flow reversal with vein valve, augmentation of (Phillips), 746

Peripheral—Cont'd
resistance, total, produced by administration of chlordiazepoxide, changes in myocardial performance and (Hitch and Nolan), 352
Permeability, capillary, effects of *E. coli* septic shock on pulmonary hemodynamics and (Harrison et al.), 795
Phasic flow through normal and prosthetic mitral valves in unanesthetized dogs (Folts et al.), 235
Placenta, artificial, response of ductus arteriosus and pulmonary blood flow to oxygen tension in immersed lamb fetuses perfused through (Zapol et al.), 891
Pleura and lung, extrapulmonary effects of cancer of: endocrine, muscular, cutaneous, hematologic, and cardiovascular manifestations not due to metastases (Kennedy), 514
Pleural empyema: changing etiologic, bacteriologic, and therapeutic aspects (Geha), 626
space intubation, routine antibiotic therapy following: reappraisal (Neugebauer et al.), 882
symphysis, talc, in management of malignant pleural effusion, evaluation of (Shedbalkar et al.), 492
Pneumonectomy, cardiac herniation after (Levin et al.), 104
massive pulmonary arterial thrombosis following (Arciniegas and Coates), 487
Polyvinyl chloride in open-heart surgery, toxicity of ethylene oxide sterilization of (Stanley et al.), 309
Poppet, metal, and rigid prosthetic valve (Detmer and Braunwald), 175
Positive-pressure breathing, constant, simple modification of existing respirators to provide (Trinkle and Bryant), 617
Postperfusion pulmonary hypertension: total body bypass in miniature pigs (Swan and Meagher), 956
Postpneumonectomy empyema, management of (Provan), 107
Potassium, tissue, early, and sodium shifts and coronary vein potassium levels in experimental myocardial infarction, relationship to ventricular fibrillation of (Cherry and Myers), 587
Pressure, osmotic, colloid, during and shortly after open intracardiac operation, changes in (English et al.), 338
Primary bronchogenic carcinoma, bilateral, diagnosis and treatment of (Struve-Christensen), 501
pulmonary cryptococcosis (Hatcher et al.), 39
sarcoma of lung (Martini et al.), 33
Prognostic significance of tumor doubling time in evaluating operability in pulmonary metastatic disease (Joseph et al.), 23
Prosthesis(es), Dacron, false aneurysm due to Mucor following repair of coarctation with (Callard et al.), 181
mitral, engagement of ventricular myocardium by struts of: fatal complication of use of open-cage cardiac valves (Ibarra-Pérez et al.), 403
Starr-Edwards and Cutter-Smeloff, hemodynamic changes following mitral valve replacement with (Lee et al.), 688
total repair of tetralogy of Fallot and replacement of aortic valve with: case report (Peters), 599
valve, aortic, Starr-Edwards, cloth cover wear of struts of: case report (Ablaza et al.), 315
Beall, hemolysis following mitral valve replacement with (Williams et al.), 393
mitral, sutureless, ball variance in: report of 2 cases and clue to early diagnosis (Metzger et al.), 699
Prosthetic heart valve replacement: causes of early postoperative death (Colapinto and Silver), 938
mitral valves in unanesthetized dogs, phasic flow through normal and (Folts et al.), 235
reconstruction of diaphragm and esophageal hiatus, chylous cystectomy with (Beasley and Mills), 324
valve, rigid, metal poppet and (Detmer and Braunwald), 175
Protamine sulfate, total cardiopulmonary bypass, myocardial contractility, and administration of (Gourin et al.), 160
Pseudocyst of pancreas associated with hydrothorax: case report and review of literature (Prabhaker et al.), 885
Pseudosarcoma of esophagus: case report (Razzuk et al.), 650
Pulmonary arterial thrombosis, massive, following pneumonectomy (Arciniegas and Coates), 487
artery band, radiopaque (Patterson), 975
cannulation, percutaneous (Phillips and Krakauer), 490
on right ventricular hemodynamics, effects of synchronized counterpulsation of (Spotnitz et al.), 167
atresia, congenital, with ventricular septal defect, surgical treatment of (Kouchoukos et al.), 70
with intact ventricular septum (Bowman et al.), 85
blood flow to blood oxygen tension in immersed lamb fetuses perfused through artificial placenta, response of ductus arteriosus and (Zapol et al.), 891

XUM

Pulmonary—Cont'd
carcinosarcoma: etiologic, therapeutic, and prognostic considerations (Kakos et al.), 777
cryptococcosis, primary (Hatcher et al.), 39
extravascular water volume following mitral valve replacement, changes in (O'Connor et al.), 342
fat embolism, pathophysiology of (Bruecke et al.), 949
hemodynamics and capillary permeability, effects of *E. coli* septic shock on (Harrison et al.), 795
hypertension, postperfusion: total body bypass in miniature pigs (Swan and Meagher), 956
intracavitary aspergilloma fungus ball: report of 3 cases (Zatzkin et al.), 619
metastatic disease, prognostic significance of tumor doubling time in evaluating operability in (Joseph et al.), 23
outflow tract and valve with formalin-treated porcine heterograft, replacement of: experimental study in dog (Pierce et al.), 924
resection in infants younger than 1 year of age (Pierce et al.), 875
for metastatic neoplasms (Turney and Haight), 784
in patients over 70 years of age (Golebiowski), 265
scans in lung cancer, pretreatment diagnostic evaluation with reference to (James et al.), 530
vascular response of reimplanted dog lung to hypoxia (Valenca et al.), 857
venous connection, anomalous, total, long-term results following correction of (Gomes et al.), 253
Pulmonic stenosis with intact ventricular septum: surgical considerations and results of operation (Danielson et al.), 228
Puncture, needle, transcutaneous, measurement of cardiac stimulation threshold by (Center and Tarjan), 752
Pyloromyotomy, new technique in conjunction with esophagectomy or repair of hiatus hernia with vagotomy (Chung et al.), 282

R

Radiopaque pulmonary artery band (Patterson), 975
Reconstruction, prosthetic, of diaphragm and esophageal hiatus, chylous cystectomy with (Beasley and Mills), 324
sternal, surgical management and availability of techniques of: rhabdomyosarcoma of sternum (Calinog et al.), 811
Reconstructive operation, new, for correction of mitral and tricuspid insufficiency (Carpentier et al.), 1
procedures for acquired mitral valve disease, comparison of late results of replacement and of (Kerth et al.), 14
Reimplantation, lung, bilateral, one-stage, in dog, surgical technique of (Alican et al.), 847
Rejection, clinical, serial hemodynamic study of transplanted heart and correlation with (Leachman et al.), 561
Removal of foreign body from lung by angiographic snare technique (Miller), 624
Renal insufficiency following aortic valve replacement for aortic insufficiency, syndrome of acute hemorrhagic intestinal infarction and (Hill et al.), 430
Repair and long-term follow-up of subaortic annular aneurysm (Puig-Massana et al.), 397
total, of tetralogy of Fallot and replacement of aortic valve with Starr-Edwards prosthesis: case report (Peters), 599
Replacement of aortic valve with Starr-Edwards prosthesis, total repair of tetralogy of Fallot and: case report (Peters), 599
of mitral valve through left ventricle: new approach (Abraham et al.), 686
of pulmonary outflow tract and valve with formalin-treated porcine heterograft: experimental study in dog (Pierce et al.), 924
and of reconstructive procedures for acquired mitral valve disease, comparison of late results of (Kerth et al.), 14
valve, aortic, for aortic insufficiency, syndrome of acute hemorrhagic intestinal infarction and renal insufficiency following (Hill et al.), 430
emergency, in bacterial endocarditis (Neville et al.), 916
cardiac: 7 year follow-up (Aston and Mulder), 547
heart, with autologous fascia lata using Ionescu technique: preliminary report (Trimble and Metni), 385
prosthetic: causes of early postoperative death (Colapinto and Silver), 938
mitral, with Beall valve prosthesis, hemolysis following (Williams et al.), 393
changes in pulmonary extravascular water volume following (O'Connor et al.), 342
with Starr-Edwards and Cutter-Smeloff prostheses, hemodynamic changes following (Lee et al.), 688
Resection of postinfarction aneurysm, gross and microscopic findings 33 months after: left ventricular wound (Dillon et al.), 605
pulmonary, in infants younger than 1 year of age (Pierce et al.), 875

Resection, pulmonary—Cont'd
for metastatic neoplasms (Turney and Haight), 784
in patients over 70 years of age (Golebiowski), 265
Resistance, peripheral, total, produced by administration of chlordiazepoxide, changes in myocardial performance and (Hitch and Nolan), 352
Respirators, existing, to provide constant positive-pressure breathing, simple modification of (Trinkle and Bryant), 617
Response, hemostatic, to open-heart operations (Gralnick and Fischer), 909
vascular, pulmonary, of reimplanted dog lung to hypoxia (Valenca et al.), 857
Retroesophageal right subclavian artery, aberrant, in adult, definitive surgical treatment of (Pifarré et al.), 154
Return, venous, repair of transposition of great arteries by transposition of: surgical considerations and results of operation (Danielson et al.), 96
Revascularization, myocardial—direct or indirect (Effler), 498 (Edit.)
Ring, vascular: persistent right aortic arch, patent proximal left arch, obliterated distal left arch, and left ligamentum arteriosum (Symbas et al.), 149
Rhabdomyosarcoma of left atrium: physiologic responses to surgical therapy (Matloff et al.), 451
of sternum: surgical management and availability of techniques of sternal reconstruction (Calinog et al.), 811
Rheologic effects of hypothermia on blood with high hematocrit values (Marty et al.), 735
Rhythm disturbances, severe, ventricular aneurysmectomy for (Schlesinger et al.), 602
Rupture of aorta and great vessels due to blunt thoracic trauma (DeMeules et al.), 438
traumatic, of aortic arch with disinsertion of innominate artery: report of case with successful treatment (Piwnica et al.), 246

S

Sarcoma, primary, of lung (Martini et al.), 33
Scan(s), lung, in cardiopulmonary disease: I. Tetralogy of Fallot (Lin), 370
pulmonary, in lung cancer, pretreatment diagnostic evaluation with reference to (James et al.), 530
Scleroderma, surgical treatment of strictures of esophagus in patients with (McLaughlin et al.), 641
Septal defect, ventricular, following myocardial infarction: experience with surgical repair through left ventriculotomy and review of literature (Kitamura et al.), 186
Septal defect, ventricular—Cont'd
isolated tricuspid endocarditis with (Jiménez-Martínez et al.), 665
surgical treatment of congenital pulmonary atresia with (Kouchoukos et al.), 70
Septic origin, left ventricular–right atrial shunt of: presentation of case with surgical closure (Åberg et al.), 212
shock, *E. coli*, on pulmonary hemodynamics and capillary permeability, effects of (Harrison et al.), 795
Septum, ventricular, intact, pulmonary atresia with (Bowman et al.), 85
pulmonic stenosis with: surgical considerations and results of operation (Danielson et al.), 228
Serum magnesium in patients undergoing cardiopulmonary bypass, clinical significance of changes in (Scheinman et al.), 135
Shock, hypovolemic, fatal, due to massive edema following cardiopulmonary bypass (Smullens and Templeton), 348
septic, *E. coli*, on pulmonary hemodynamics and capillary permeability, effects of (Harrison et al.), 795
Shunt, left ventricular–right atrial, of septic origin: presentation of case with surgical closure (Åberg et al.), 212
Snare technique, angiographic, removal of foreign body from lung by (Miller et al.), 624
Sodium, tissue, early, and potassium shifts and coronary vein potassium levels in experimental myocardial infarction, relationship to ventricular fibrillation of (Cherry and Myers), 587
Squamous verrucose carcinoma of esophagus, natural history of (Meyerowitz and Shea), 646
Starr-Edwards aortic valve prosthesis, cloth cover wear of struts of: case report (Ablaza et al.), 315
prosthesis, total repair of tetralogy of Fallot and replacement of aortic valve with: case report (Peters), 599
Stenosis, mitral, and insufficiency with subaortic and subpulmonic stenosis: report of case of successful surgical treatment (Billig et al.), 121
pulmonic, with intact ventricular septum: surgical considerations and results of operation (Danielson et al.), 228
Sterilization, oxide, ethylene, of polyvinyl chloride in open-heart surgery, toxicity of (Stanley et al.), 309
Sternum, chondrosarcoma of: report of 6 year survival (Peabody), 636
rhabdomyosarcoma of: surgical management and availability of techniques of sternal reconstruction (Calinog et al.), 811

Stricture(s) of esophagus in patients with scleroderma, surgical treatment of (McLaughlin et al.), 641
peptic, with acquired short esophagus, operation for management of: gastroplasty and Belsey hiatus hernia repair (Pearson et al.), 50
Struts of mitral prosthesis, engagement of ventricular myocardium by: fatal complication of use of open-cage cardiac valves (Ibarra-Pérez et al.), 403
of Starr-Edwards aortic valve prosthesis, cloth cover wear of: case report (Ablaza et al.), 315
Subaortic annular aneurysm, repair and long-term follow-up of (Puig-Massana et al.), 397
Subclavian artery, right, anomalous, unusual case of dysphagia due to: new approach for operative treatment (Shumacker et al.), 304
retroesophageal, aberrant, in adult, definitive surgical treatment of (Pifarré et al.), 154
Surface-induced deep hypothermia and after cardiac arrest for 1 hour, circulatory dynamics during (Rittenhouse et al.), 359
Surgery, cardiovascular, fungal endocarditis following (Ostermiller et al.), 670
Survival, 10 month, after lung homotransplantation in man (Derom et al.), 835
Symphysis, pleural, talc, in management of malignant pleural effusion, evaluation of (Shedbalkar et al.), 492
Synchronized-demand pacemaker: Universal pacer (Rogel and Mahler), 466
Systemic arterioventricular valve, surgical treatment of associated incompetence of: congenital corrected transposition of great vessels (Haiderer et al.), 933
blood flow of rhesus monkey during cardiopulmonary bypass, distribution of (Lees et al.), 570

T

Talc pleural symphysis in management of malignant pleural effusion, evaluation of (Shedbalkar et al.), 492
Tension, oxygen, blood, in immersed lamb fetuses perfused through an artificial placenta, response of ductus arteriosus and pulmonary blood flow to (Zapol et al.), 891
Tetralogy of Fallot and replacement of aortic valve with Starr-Edwards prosthesis, total repair of: case report (Peters), 599
I. Lung scan in cardiopulmonary disease (Lin), 370
Therapeutic, etiologic, and bacteriologic aspects, changing: pleural empyema (Geha), 626
Threshold, stimulation, cardiac, by transcutaneous needle puncture, measurement of (Center and Tarjan), 752
Thrombosis, arterial, pulmonary, massive, following pneumonectomy (Arciniegas and Coates), 487
Time, doubling, tumor, in evaluating operability in pulmonary metastatic disease, prognostic significance of (Joseph et al.), 23
Tissue sodium and potassium shifts, early, and coronary vein potassium levels in experimental myocardial infarction, relationship to ventricular fibrillation of (Cherry and Myers), 587
Tolerance, ischemic, of lung: effect of ventilation and inflation (Veith et al.), 804
Toxicity of ethylene oxide sterilization of polyvinyl chloride in open-heart surgery (Stanley et al.), 309
Tract, outflow, pulmonary, and valve with formalin-treated porcine heterograft, replacement of: experimental study in dog (Pierce et al.), 924
Transplantation, cardiac, in pig, technical aspects of (Swan and Piermattei), 710
of lung, ventilation and perfusion after: studies with intravenous xenon-133 (Hutchin et al.), 476
Transplanted heart and correlation with clinical rejection, serial hemodynamic study of (Leachman et al.), 561
Transposition, complete, of great vessels without associated defects: case report of first patient to live to be normal adult: result of surgery (Morgan et al.), 904
new method of closed atrioseptectomy for palliative treatment of (Rastan and Koncz), 705
corrected, congenital, of great vessels: surgical treatment of associated incompetence of systemic atrioventricular valve (Haiderer et al.), 933
of great arteries by transposition of venous return, repair of: surgical considerations and results of operation (Danielson et al), 96
Transtelephone pacemaker clinic (Furman et al.), 827
Trauma, thoracic, blunt, rupture of aorta and great vessels due to (DeMeules et al.), 438
Traumatic rupture of aortic arch with disinsertion of innominate artery: report of case with successful treatment (Piwnica et al.), 246
Tricuspid endocarditis, isolated, with ventricular septal defect (Jiménez-Martínez et al.), 665

Tricuspid—Cont'd
and mitral insufficiency, new reconstructive operation for correction of (Carpentier et al.), 1
Tumor doubling time in evaluating operability in pulmonary metastatic disease, prognostic significance of (Joseph et al.), 23

U

Universal pacer: synchronized-demand pacemaker (Rogel and Mahler), 466

V

Vagotomy, pyloromyotomy, new technique in conjunction with esophagectomy or repair of hiatus hernia with (Chung et al.), 282
Valve(s), aortic, with Starr-Edwards prosthesis, total repair of tetralogy of Fallot and replacement of: case report (Peters), 599
atrioventricular, systemic, surgical treatment of associated incompetence of: congenital corrected transposition of great vessels (Haiderer et al.), 933
disease, mitral, acquired, comparison of late results of replacement and of reconstructive procedures for (Kerth et al.), 14
with formalin-treated porcine heterograft, replacement of pulmonary outflow tract and: experimental study in dog (Pierce et al.), 924
heterograft, viable, histologic and hemodynamic evaluation of (Iben et al.), 556
mitral, prosthetic and normal, in unanesthetized dogs, phasic flow through (Folts et al.), 235
through left ventricle, replacement of: new approach (Abraham et al.), 686
prosthesis, aortic, Starr-Edwards, cloth cover wear of struts of: case report (Ablaza et al.), 315
mitral, sutureless, ball variance in: report of 2 cases and clue to early diagnosis (Metzger et al.), 699
prosthetic, rigid, metal poppet and (Detmer and Braunwald), 175
replacement, aortic, for aortic insufficiency, syndrome of acute hemorrhagic intestinal infarction and renal insufficiency following (Hill et al.), 430
emergency, in bacterial endocarditis (Neville et al.), 916
cardiac: 7 year follow-up (Aston and Mulder), 547
heart, with autologous fascia lata using Ionescu technique: preliminary report (Trimble and Metni), 385
Valve replacement, heart—Cont'd
prosthetic: causes of early postoperative death (Colapinto and Silver), 938
mitral, with Beall valve prosthesis, hemolysis following (Williams et al.), 393
changes in pulmonary extravascular water volume following (O'Connor et al.), 342
with Starr-Edwards and Cutter-Smeloff prostheses, hemodynamic changes following (Lee et al.), 688
vein, augmentation of peripheral forward blood flow by prevention of flow reversal with (Phillips), 746
Variance, ball, in sutureless mitral valve prosthesis: report of 2 cases and clue to early diagnosis (Metzger et al.), 699
Vascular response, pulmonary, of reimplanted dog lung to hypoxia (Valenca et al.), 857
ring: persistent right aortic arch, patent proximal left arch, obliterated distal left arch, and left ligamentum arteriosum (Symbas et al.), 149
Vein valve, augmentation of peripheral forward blood flow by prevention of flow reversal with (Phillips), 746
Veno-arterial bypass, prolonged, with Bramson membrane lung, hemodynamic, metabolic, and organ function studies in animals subjected to (Holdefer et al.), 217
Venous connection, pulmonary, anomalous, total, long-term results following correction of (Gomes et al.), 253
return, repair of transposition of great arteries by transposition of: surgical considerations and results of operation (Danielson et al.), 96
Vent efficiency, aortic: quantitative evaluation (Brenner et al.), 258
Ventilation and inflation, effect of: ischemic tolerance of lung (Veith et al.), 804
and perfusion after transplantation of lung: studies with intravenous xenon-133 (Hutchin et al.), 476
Ventricle, left, Echinococcus cyst of: report of case with review of pertinent literature (Murphy et al.), 443
replacement of mitral valve through: new approach (Abraham et al.), 686
Ventricular aneurysmectomy for severe rhythm disturbances (Schlesinger et al.), 602
fibrillation of early tissue sodium and potassium shifts and coronary vein potassium levels in experimental myocardial infarction, relationship to (Cherry and Myers), 587
hemodynamics, right, effects of synchronized counterpulsation of pulmonary artery on (Spotnitz et al.), 167
left,–right atrial shunt of septic origin: presentation of case with surgical closure (Aberg et al.), 212

XUM

Ventricular—Cont'd
myocardium by struts of mitral prosthesis, engagement of: fatal complication of use of open-cage cardiac valves (Ibarra-Pérez et al.), 403
septal defect, isolated tricuspid endocarditis with (Jiménez-Martínez et al.), 665
following myocardial infarction: experience with surgical repair through left ventriculotomy and review of literature (Kitamura et al.), 186
surgical treatment of congenital pulmonary atresia with (Kouchoukos et al.), 70
septum, intact, pulmonary atresia with (Bowman et al.), 85
pulmonic stenosis with: surgical considerations and results of operation (Danielson et al.), 228
wound, left: gross and microscopic findings 33 months after resection of postinfarction aneurysm (Dillon et al.), 605
Verrucose carcinoma, squamous, of esophagus, natural history of (Meyerowitz and Shea), 646
Vessels, great, without associated defects, complete transposition of: case report of first patient to live to be normal adult: result of surgery (Morgan et al.), 904
congenital corrected transposition of: surgical treatment of associated incompetence of systemic atrioventricular valve (Haiderer et al.), 933
Vessels, great—Cont'd
due to blunt thoracic trauma, rupture of aorta and (DeMeules et al.), 438
new method of closed atrioseptectomy for palliative treatment of complete transposition of (Rastan and Koncz), 705
Viable heterograft valves, histologic and hemodynamic evaluation of (Iben et al.), 556
Volume changes, blood, after open-heart surgery, cardiac output and (Yashar et al.), 724

W

Water volume, extravascular, pulmonary, following mitral valve replacement, changes in (O'Connor et al.), 342
Wound, ventricular, left: gross and microscopic findings 33 months after resection of postinfarction aneurysm (Dillon et al.), 605

X

Xenon-133, intravenous, studies with: ventilation and perfusion after transplantation of lung (Hutchin et al.), 476
Xiphoid mediastinoscopy for permanent myocardial implantation of modified electrode: preliminary report (Beaulieu et al.), 968

The Journal of THORACIC AND CARDIOVASCULAR SURGERY

Official organ, The American Association for Thoracic Surgery

Editor BRIAN BLADES, *Washington, D. C.*

Associate editors THOMAS H. BURFORD, *St. Louis*
PAUL ADKINS, *Washington, D. C.*

Advisory editorial board WILLIAM E. ADAMS, *Chicago*
EDWARD J. BEATTIE, JR., *New York*
WILFRED G. BIGELOW, *Toronto*
EDWARD D. CHURCHILL, *Boston*
O. THERON CLAGETT, *Rochester, Minn.*
ANTHONY R. CURRERI, *Madison, Wis.*
DONALD B. EFFLER, *Cleveland*
LEO ELOESSER, *San Francisco*
ROBERT E. GROSS, *Boston*
CAMERON HAIGHT, *Ann Arbor*
STUART W. HARRINGTON, *Rochester, Minn.*
JOHN C. JONES, *Los Angeles*
HIRAM T. LANGSTON, *Chicago*
HERBERT C. MAIER, *New York*
DONALD L. PAULSON, *Dallas*
DAVID C. SABISTON, JR., *Durham, N. C.*
PAUL C. SAMSON, *Oakland*

Advisory editorial board representing the Society of Thoracic and Cardiovascular Surgeons of Great Britain and Ireland
LORD RUSSELL C. BROCK, *London, England*
SIR CLEMENT PRICE THOMAS, *Sussex, England*

EVARTS A. GRAHAM, *Editor, 1931-1957*
EMILE HOLMAN, *Editor, 1957-1962*

Volume 62, July-December, 1971
The C. V. Mosby Company
St. Louis, Mo.

XUM

Volume 62
Copyright, © 1971 by The C. V. Mosby Company
All rights reserved
Printed in the United States of America

Index to volume 62

Author index*

A

ABBOTT, OSLER A. (*See* HATCHER, LOGUE, LOGAN, SYMBAS, MANSOUR, and ABBOTT), 371

ABE, TADAAKI (*See* HORIUCHI, ABE, OKADA, KURIBAYASHI, SUZUKI, and ISHIZAWA), 793

ABERDEEN, EOIN. Discussion of cuff volume and pressure in tracheostomy tube damage, 409

ADAM, MAURICE (*See* LAMBERT, ADAM, GEISLER, VERZOSA, NAZARIAN, and MITCHEL), 522, 527

ADAMS, JOHN G., JR. (*See* DAS, ERAKLIS, ADAMS, and GROSS), 449

ADKINS, PAUL C. (*See* TUNELL, KOH, and ADKINS), 563

AGNEW, HEWES D. (*See* LEAND, BENDER, MARTZ, CRISLER, AGNEW, and GOTT), 285

AKUTSU, TETSUZO. Discussion of Thoracic Surgery Forum, 889

ALDRIDGE, HAROLD E., and TRIMBLE, ALAN S. Progression of proximal coronary artery lesions to total occlusion after aorta-coronary saphenous vein bypass grafting, 7

ALONSO-LEJ, F., and DE LINERA, F. A. Resection of the entire sternum and replacement with acrylic resin: report of a case of giant chondromyxoid fibroma, 271

AMELI, F. MICHAEL (*See* BAIRD and AMELI), 87

—. (*See* EVANS, MIYAGISHIMA, TUTASSAURA, AMELI, and BAIRD), 76

ANGELL, WILLIAM W. (*See* BUCH KOSEK, and ANGELL), 696

—. (*See* COHN, ANGELL, and SHUMWAY), 423

APARICIO, S. G. R. (*See* LENNOX, BLESOVSKY, CHANG, CLELAND, GHADIALI, and APARICIO), 337

ARBULU, AGUSTIN. Discussion of Thoracic Surgery Forum, 843

ARRIGONI, MARCO G., BERNATZ, PHILIP E., and DONOGHUE, F. EDMUND. Broncholithiasis, 231

ATKINS, CLAUDE (*See* RATLIFF, FLETCHER, KOPRIVA, ATKINS, and AUSSEM), 638

AUSSEM, JOHN W. (*See* RATLIFF, FLETCHER, KOPRIVA, ATKINS, and AUSSEM), 638

AYRES, STEPHEN M. (*See* CHING, AYRES, PAEGLE, LINDEN, and NEALON), 402

B

BAIRD, RONALD J., and AMELI, F. MICHAEL. The changes in intramyocardial pressure produced by acute ischemia, 87

—. (*See* EVANS, MIYAGISHIMA, TUTASSAURA, AMELI, and BAIRD), 76

BAKER, R. ROBINSON (*See* HUANG, NORICO, and BAKER), 131

BAKOULAS, G. (*See* COKKINOS, VORIDIS, BAKOULAS, THEODOSSIOU, and SKALKEAS), 947

BALL, ANNE P. (*See* PORTER, BALL, and SILVER), 725

BANKOLE, M. (*See* BERNHARD, LAFARGE, BANKOLE, BORNHORST, and BUTTON), 859

BARBERO MARCIAL, MIGUEL (*See* VERGINELLI, MARTIN, BARBERO MARCIAL, MACRUZ, and ZERBINI), 436

BARKER, WALTER L., FABER, L. PENFIELD, OSTERMILLER, WILLIAM E., JR., and LANGSTON, HIRAM T. Management of persistent bronchopleural fistulas, 393

BARNARD, C. N. (*See* BECK, BARNARD, and SCHRIRE), 315

BARON, P. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707

BARTLEY, THOMAS D. (*See* RAMSEY, WILLIAMS, VERNON, WHEAT, DAICOFF, and BARTLEY), 624

BECK, W., BARNARD, C. N., and SCHRIRE, V. Hemodynamic studies in 2 long-term survivors of heart transplantation, 315

BECKER, ANTON E., BECKER, MIES J., and EDWARDS, JESSE E. Pathology of the semilunar valve in persistent truncus arteriosus, 16

BECKER, MIES J. (*See* BECKER, BECKER, and EDWARDS), 16

*July, pp. 1-166; August, pp. 167-336; September, pp. 337-502; October, pp. 503-672; November, pp. 673-836; December, pp. 837-1010.

XUM

BEDYNEK, JULIUS L., JR. (*See* TREASURE, GREEN, BEDYNEK, and HOPEMAN), 818

BENCHIMOL, ALBERTO (*See* DESSER, BENCHIMOL, CORNELL, and NELSON), 830

BENDER, H. W. (*See* GARDNER, BRANTIGAN, PERNA, BENDER, BRAWLEY, and GOTT), 844

BENDER, HARVEY W., JR. (*See* LEAND, BENDER, MARTZ, CRISLER, AGNEW, and GOTT), 285

BENFIELD, JOHN R. (*See* GONDOS, WHITE, and BENFIELD), 183

BENJAMIN, JAMES (*See* FURMAN, KOERNER, ESCHER, PAPOWITZ, BENJAMIN, and TARJAN), 743

BEREGOVICH, JONAS, REICHER-REISS, HENRIETTA, KUNSTADT, DOROTHY, and GRISHMAN, ARTHUR. Hemodynamic effects of isoproterenol in cardiac surgery, 957

BERG, PAUL (*See* WRIGHT, BERG, and SEKI), 473

BERGMANN, MARTIN, and ZIMMERMAN, HERBERT B. Thrombosis after pacemaker catheter implantation, 669 (Letter)

BERNATZ, PHILIP E. (*See* ARRIGONI, BERNATZ, and DONOGHUE), 231

BERNHARD, W. F., LAFARGE, C. G., BANKOLE, M., BORNHORST, W., and BUTTON, L. Biventricular bypass: physiologic studies during induced ventricular failure and fibrillation, 859

BERNSTEIN, EUGENE F., and MURPHY, ANTHONY E., JR. The importance of pulsation in preventing thrombosis from intra-aortic balloons: a note of caution, 950

BERROYA, RENATO B. (*See* ESCANO, BERROYA, GIANFRANCESCO, MACASAET, and KHICHA), 454

BEUZELIN, J. P. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707

BIANCO, JESUS A., SHANAHAN, E. ANNE, OSTHEIMER, GERARD W., GUYTON, ROBERT A., POWELL, WM. JOHN, JR., and DAGGETT, WILLARD M. Cardiovascular effects of diazepam, 125

BIEBER, C. P. (*See* KENNEDY, BIEBER, and MITCHINSON), 42

BIGELOW, WILFRED G. Discussion of Thoracic Surgery Forum, 694

BJÖRK, VIKING O. Discussion of Thoracic Surgery Forum, 931

BLAKEMORE, WILLIAM S. Discussion of pericardiectomy for recurrent pericarditis, 377

BLESOVSKY, A. (*See* LENNOX, BLESOVSKY, CHANG, CLELAND, GHADIALI, and APARICIO), 337

BLOUNT, S. GILBERT, JR. (*See* PAPPAS, GROVER, SARCHE, and BLOUNT), 51

BOCCABELLA, KATHLEEN (*See* BOLOOKI, RUBINSON, MICHIE, and JUDE), 543

BOLOOKI, HOOSHANG, RUBINSON, RICHARD M., MICHIE, DAVID D., and JUDE, JAMES R. With the assistance of Kathleen Boccabella. Assessment of myocardial contractility after coronary bypass grafts, 543

BOONTJE, A. H., and KRUYSWIJK, H. H. Arteriovenous fistula of the internal mammary vessels, 618

BORMAN, J. B., TANNENBAUM, J., MERIN, G., SCHULMAN, B., and MILWIDSKY, H. External-internal defibrillation: an experimental and clinical appraisal, 98

BORNHORST, W. (*See* BERNHARD, LAFARGE, BANKOLE, BORNHORST, and BUTTON), 859

BORUCHOW, IRWIN B., RAMSEY, HOWARD W., and WHEAT, MYRON W., Jr. Complications following destruction of the cloth covering of a Starr-Edwards aortic valve prosthesis, 290

—. (*See* EMERSON, BORUCHOW, DAICOFF, BARTLEY, and WHEAT), 967

BOYD, WILLIAM C. (*See* TECTOR, BOYD, and KORNS), 592

BRAIMBRIDGE, M. V. (*See* YALAV, BROWN, and BRAIMBRIDGE), 788

BRANTIGAN, J. W. (*See* GARDNER, BRANTIGAN, PERNA, BENDER, BRAWLEY, and GOTT), 844

BRAUNWALD, NINA S., TATOOLES, CONSTANTINE, TURINA, MARKO, and DETMER, DON. New developments in the design of fabric-covered prosthetic heart valves, 673

BRAWLEY, ROBERT K. (*See* GARDNER, BRANTIGAN, PERNA, BENDER, BRAWLEY, and GOTT), 844

—. (*See* MURRAY, BRAWLEY, and GOTT), 34

BREGMAN, DAVID, and GOETZ, ROBERT H. Clinical experience with a new cardiac assist device: the dual-chambered intra-aortic balloon assist, 577

BREWER, LYMAN A., III. Discussion of closed valvulotomy for calcific mitral stenosis, 363

BRIGGS, J. N. (*See* WOLCOTT, HARRIS, BRIGGS, DOBELL, and BROWN), 465

BRONSTEIN, MERRILL H. (*See* PADULA, EISENSTAT, BRONSTEIN, and CAMISHION), 736

BROWN, A. HEDLEY (*See* YALAV, BROWN, and BRAIMBRIDGE), 788

BROWN, R. K. (*See* WOLCOTT, HARRIS, BRIGGS, DOBELL, and BROWN), 465

BRYANT, LESTER R. (*See* TRINKLE, MOBIN-UDDIN, and BRYANT), 281

—. Discussion of closed valvulotomy for calcific mitral stenosis, 364

—. Discussion of Thoracic Surgery Forum, 907

BUCHMAN, ROBERT J. (*See* THOMAS and BUCHMAN), 176

BUCKLEY, MORTIMER J. Discussion of dual-chambered intra-aortic balloon assist, 590

BURFORD, THOMAS H. From whence to whither: some reflections on surgical specialty training, 167 (President's address)

—. (*See* FERGUSON and BURFORD), 669

BUCH, WALLY S., KOSEK, JON C., and ANGELL, WILLIAM W. The role of rejection and mechanical trauma on valve graft viability, 696

BUSH, HARRY L., ZORN, GEORGE L., PATTERSON, THOMAS L., and KAISER, GERARD A. An improved technique for cervical cardiac homotransplantation in the dog, 68

BUTTERFIELD, WILLIAM C. Anti-reflux palliative resections for inoperable carcinoma of the esophagogastric junction, 460

BUTTON, L. (*See* BERNHARD, LAFARGE, BANKOLE, BORNHORST, and BUTTON), 859

C

CAMISHION, RUDOLPH C. (*See* PADULA, EISENSTAT, BRONSTEIN, and CAMISHION), 736

CAMPBELL, CHARLES F. Repair of an aneurysm of an aberrant retroesophageal right subclavian artery arising from Kommerell's diverticulum, 330

CAREY, JOSEPH S. With the technical assistance of Herbert Williamson, Clarence Moore, Herbert Lundberg, Leon Turner, Calvin Scott, and Elliot Sacks. Cardiovascular response to acute hemodilution, 103

CARPENTIER, A., DELOCHE, A., LESSANA, A., PRIGENT, C., BEUZELIN, J. P., CARPENTIER, S., GUERIN, L., MACHER, J. P., TOUCHOT, B., BARON, P., DAHAN, M., and DUBOST, CH. Collagen-derived heart valves: concept and experimental results, 707

—. Discussion of open mitral commissurotomy, 369

CARPENTIER, S. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707

CASTANEDA, ALDO R., NICOLOFF, DEMETRE M., MOLLER, JAMES H., and LUCAS, RUSSELL, V., JR. Surgical correction of complete atrioventricular canal utilizing ball-valve replacement of the mitral valve: technical considerations and results, 926

CHANG, V. P. (*See* LENNOX, BLESOVSKY, CHANG, CLELAND, GHADIALI, and APARICIO), 337

CHESLER, E. (*See* JOFFE, CHESLER, O'DONOVAN, and SCHRIRE), 238

CHING, ERNESTO, DUSHANE, JAMES W., MCGOON, DWIGHT C., and DANIELSON, GORDON K. Total correction of cardiac anomalies in infancy using extracorporeal circulation: surgical consideration and results of operation, 117

CHING, NATHANIEL P., AYRES, STEPHEN M., PAEGLE, ROLAND P., LINDEN, JANET M., and NEALON, THOMAS F., JR. The contribution of cuff volume and pressure in tracheostomy tube damage, 402, 410

—. Discussion of Thoracic Surgery Forum, 907

CHUA, FELIPE S., IDRISS, FAROUK S., HAMOUDA, FAROUK, RAGHUNATH, T. K., NEVILLE, WILLIAM E., and PIFARRÉ, ROQUE. A simple method of repairing fractured pacemaker electrodes, 457

CLAGETT, O. THERON (*See* WYCHULIS, PAYNE, CLAGETT, and WOOLNER), 379

CLARK, JUSTIN S. (*See* VEASY, CLARK, JUNG, JENKINS, and JENSON), 914

CLELAND, W. P. (*See* LENNOX, BLESOVSKY, CHANG, CLELAND, GHADIALI, and APARICIO), 337

CLOWES, GEORGE H. A., JR. Discussion of Thoracic Surgery Forum, 730

COHN, LAWRENCE H., ANGELL, WILLIAM W., and SHUMWAY, NORMAN E. Body fluid shifts after cardiopulmonary bypass. I. Effects of congestive heart failure and hemodilution, 423

COKKINOS, D. V., VORIDIS, E., BAKOULAS, G., THEODOSSIOU, A., and SKALKEAS, G. D. Thrombosis of two high-flow prosthetic valves, 947

CONNOLLY, DANIEL C. (*See* WYCHULIS, CONNOLLY, and MCGOON), 294, 608

CONNOLLY, JOHN E., WAKABAYASHI, AKIO, GERMAN, JOHN C., STEMMER, EDWARD A., and SERRES, EDWARD J. Clinical experience with pulsatile left heart bypass without anticoagulation for thoracic aneurysms, 568, 576

—. Discussion of ischemic cardiac arrest in coronary artery bypass, 520

COOK, WILLIAM A. Discussion of surgical implications of intracavitary mycetomas, 420

COOLEY, DENTON A. (*See* GERAMI, MESSMER, HALLMAN, and COOLEY), 366, 370

—. (*See* MESSMER, OKIES, HALLMAN, and COOLEY), 938

COOPER, JOEL D. (*See* GRILLO, COOPER, GEFFIN, and PONTOPPIDAN), 898

CORNELL, WILLIAM P. (*See* DESSER, BENCHIMOL, CORNELL, and NELSON), 830

COX, WILLIAM A. Discussion of open mitral commissurotomy, 368

CRAENEN, JOSEPHA (*See* WILLIAMS, SCHILLER, CRAENEN, HOSIER, and SIRAK), 63

CRAWFORD, E. STANLEY (*See* REUL, MORRIS, HOWELL, CRAWFORD, SANDIFORD, and WUKASCH), 511

CRISFIELD, R. J. Spontaneous aneurysm of the ductus arteriosus in a patient with Marfan's syndrome, 243

CRISLER, CRILE (*See* LEAND, BENDER, MARTZ, CRISLER, AGNEW, and GOTT), 285
CUELLO, LEO (*See* FONTENELLE, CUELLO, and DOOLEY), 95
CURRIE, T. T., HAYWARD, NANCY J., WESTLAKE, G., and WILLIAMS, J. Epilepsy in cardiopulmonary bypass patients receiving large intravenous doses of penicillin, 1

D

DAGGETT, WILLARD M. (*See* BIANCO, SHANAHAN, OSTHEIMER, GUYTON, POWELL, and DAGGETT), 125
DAHAN, M. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707
DAICOFF, GEORGE R. (*See* EMERSON, BORUCHOW, DAICOFF, BARTLEY, and WHEAT), 967
—. (*See* RAMSEY, WILLIAMS, VERNON, WHEAT, DAICOFF, and BARTLEY), 624
DAILY, PAT O. (*See* GRIEPP, DAILY, and SHUMWAY), 669
DANIELSON, GORDON K. (*See* CHING, DUSHANE, MCGOON, and DANIELSON), 117
—. (*See* SEKI and DANIELSON), 602
—. (*See* SEKI, TITUS, and DANIELSON), 631
—. (*See* STENSETH, DANIELSON, and MCGOON), 442
DAS, JOHN B., ERAKLIS, ANGELO J., ADAMS, JOHN G., JR., and GROSS, ROBERT E. Changes in serum ionic calcium during cardiopulmonary bypass with hemodilution, 449
DAVIGNON, A. (*See* FRIEDLI, DAVIGNON, and STANLEY), 301
DAWBARN, CAROL (*See* GEENS, GONZALEZ-LAVIN, DAWBARN, and ROSS), 262
DE BAKEY, MICHAEL. Discussion of Thoracic Surgery Forum, 681
DE LINERA, F. A. (*See* ALONSO-LEJ and DE LINERA), 271
DELOCHE, A. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707
DEMOS, NICHOLAS J. Discussion of management of persistent bronchopleural fistulas, 400
DENNIS, CLARENCE. Discussion of cuff volume and pressure in tracheostomy tube damage, 408
—. Discussion of Thoracic Surgery Forum, 742
DEPP, DAVID A., and HUGHES, RICHARD K. Venovenous perfusion with a membrane oxygenator, 658
DESSER, KENNETH B., BENCHIMOL, ALBERTO, CORNELL, WILLIAM P., and NELSON, ARTHUR R. Traumatic ventricular septal defect, aortic insufficiency, and sinus aneurysm, 830
DETMER, DON (*See* BRAUNWALD, TATOOLES, TURINA, and DETMER), 673
DOBELL, ANTHONY R. C. (*See* MURPHY, MURPHY, GIBBONS, and DOBELL), 213
—. (*See* WOLCOTT, HARRIS, BRIGGS, DOBELL, and BROWN), 465
DONOGHUE, F. EDMUND (*See* ARRIGONI, BERNATZ, and DONOGHUE), 231
DOOLEY, BYRON N. (*See* FONTENELLE, CUELLO, and DOOLEY), 95
DUBOST, CH. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707
DURANTE, PETER L. (*See* MOSER, HARSANY, HARVEY-SMITH, DURANTE, and GUISAN), 205
DUSHANE, JAMES W. (*See* CHING, DUSHANE, MCGOON, and DANIELSON), 117

E

EASTRIDGE, CHARLES E. Discussion of surgical implications of intracavitary mycetomas, 420
EASTWOOD, NEIL (*See* KWAN-GETT, VAN KAMPEN, KAWAI, EASTWOOD, and KOLFF), 880
EBERT, PAUL A., and HUDSON, BUDDY H. Pulmonary hemodynamics following lung autotransplantation: studies in unanesthetized dogs with the opposite pulmonary artery ligated, 188
ECKER, ROGER R. Discussion of emergency myocardial revascularization, 527
EDMUNDS, L. HENRY (*See* FISHMAN, EDMUNDS, HUTCHINSON, and ROE), 345
EDWARDS, JESSE E. (*See* BECKER, BECKER, and EDWARDS), 16
EFFLER, DONALD B., FAVALORO, RENE G., GROVES, LAURENCE K., and LOOP, FLOYD D. The simple approach to direct coronary artery surgery: Cleveland Clinic experience, 503, 509
EISEMAN, B. (*See* JOHNSON and EISEMAN), 651
EISENSTAT, THEODORE E. (*See* PADULA, EISENSTAT, BRONSTEIN, and CAMISHION), 736
ELLIS, F. HENRY, JR. Discussion of Smeloff-Cutter mitral prosthesis, 355
EMERSON, ERNEST B., JR. Modification of Teflon esophageal dilators for blind dilation over a string, 248
EMERSON, J. DAVID, BORUCHOW, IRWIN B., DAICOFF, GEORGE R., BARTLEY, THOMAS D., and WHEAT, MYRON W., JR. Empyema, 967
ENGELMAN, RICHARD M., NYILAS, EMERY, LACKNER, HENRIETTE, and GODWIN, SAMUEL J. Left heart bypass without anticoagulation, 851
ERAKLIS, ANGELO J. (*See* DAS, ERAKLIS, ADAMS, and GROSS), 449

ESCANO, FERNANDO B., JR., BERROYA, RENATO B., GIANFRANCESCO, HERBERT, MACASAET, ROLANDO A., and KHICHA, GYAN C. J. Intrapleural pacemaker generator in children, 454

ESCHER, DORIS J. W. (*See* FURMAN, KOERNER, ESCHER, PAPOWITZ, BENJAMIN, and TARJAN), 743

EVANS, DAVID, MIYAGISHIMA, ROBERT T., TUTASSAURA, HERNANDO, AMELI, F. MICHAEL, and BAIRD, RONALD J. The effects of closed-chest venoarterial bypass with oxygenation on cardiopulmonary hemodynamics, 76

F

FABER, L. PENFIELD (*See* BARKER, FABER, OSTERMILLER, and LANGSTON), 393, 401

FAVALORO, RENE G. (*See* EFFLER, FAVALORO, GROVES, and LOOP), 503

FECHT, DAVID C. (*See* MAIN, FECHT, PARK, MCGINNIS, and MAGOVERN), 837

FERGUSON, THOMAS B., and BURFORD, THOMAS H. Thrombosis after pacemaker catheter implantation, 669 (Letter)

FISHMAN, NOEL H., EDMUNDS, L. HENRY, HUTCHINSON, JOHN C., and ROE, BENSON B. Five-year experience with the Smeloff-Cutter mitral prosthesis, 345

FLEMMA, R. J. Discussion of ischemic cardiac arrest in coronary artery bypass, 520

FLETCHER, JOHN R. (*See* RATLIFF, FLETCHER, KOPRIVA, ATKINS, and AUSSEM), 638

FONTENELLE, LARRY J., CUELLO, LEO, and DOOLEY, BRYON N. Subxiphoid pericardial window: a simple and safe method for diagnosing and treating acute and chronic pericardial effusions, 95

FORESMAN, R. A., JR. (*See* TYERS, FORESMAN, PARK, LERNER, TORMAN, and WALDHAUSEN), 763

FORKER, ALAN D. (*See* ROGERS, MORGAN, FORKER, and FOSBURG), 810

FOSBURG, RICHARD G. (*See* ROGERS, MORGAN, FORKER, and FOSBURG), 810

FRAIMOW, WILLIAM (*See* SOLIT, MCKEOWN, SMULLENS, and FRAIMOW), 411

FRIEDLI, B., DAVIGNON, A., and STANLEY, P. Infradiaphragmatic anomalous pulmonary venous return: surgical correction in a newborn infant, 301

FRIEDMAN, PAUL J. (*See* HUTCHIN, FRIEDMAN, and SALTZSTEIN), 220

FUJITA, TSUYOSHI (*See* KAWASHIMA, FUJITA, MIYAMOTO, and MANABE), 825

FURMAN, SEYMOUR, KOERNER, SPENCER K., ESCHER, DORIS J. W., PAPOWITZ, A. JOEL, BENJAMIN, JAMES, and TARJAN, PETER. Transvenous stimulation of the phrenic nerves, 743, 751

—. Discussion of dual-chambered intra-aortic balloon assist, 590

—. Discussion of Thoracic Surgery Forum, 768

G

GAMBLE, W. J. (*See* KUMAR, PLZAK, GAMBLE, and MONROE), 12

GARDNER, T. J., BRANTIGAN, J. W., PERNA, A. M., BENDER, H. W., BRAWLEY, R. K., and GOTT, V. L. Intramyocardial gas tensions in the human heart during coronary artery-saphenous vein bypass, 844

GEENS, M., GONZALEZ-LAVIN, L., DAWBARN, CAROL, and ROSS, D. N. The surgical anatomy of the pulmonary artery root in relation to the pulmonary valve autograft and surgery of the right ventricular outflow tract, 262

GEFFIN, BENNIE (*See* GRILLO, COOPER, GEFFIN, and PONTOPPIDAN), 898

GEISLER, GERALD F. (*See* LAMBERT, ADAM, GEISLER, VERZOSA, NAZARIAN, and MITCHEL), 522

GERAMI, SOHRAB, MESSMER, BRUNO J., HALLMAN, GRADY L., and COOLEY, DENTON A. Open mitral commissurotomy: results of 100 consecutive cases, 366

GERBODE, FRANK (*See* ULLAL, KLUGE, HILL, KERTH, and GERBODE), 932

GERMAN, JOHN C. (*See* CONNOLLY, WAKABAYASHI, GERMAN, STEMMER, and SERRES), 568

GHADIALI, P. E. (*See* LENNOX, BLESOVSKY, CHANG, CLELAND, GHADIALI, and APARICIO), 337

GIANFRANCESCO, HERBERT (*See* ESCANO, BERROYA, GIANFRANCESCO, MACASAET, and KHICHA), 454

GIBBONS, JAMES E. (*See* MURPHY, MURPHY, GIBBONS, and DOBELL), 213

GILBERT, LAWRENCE (*See* RIBOT, GILBERT, ROTHFELD, PARSONNET, and JACOBS), 59

GLANCY, D. LUKE (*See* REIS, HANCOCK, YARBROUGH, GLANCY, and MORROW), 683

GLASSMAN, EPHRAIM (*See* SPENCER, GREEN, TICE, WALLSH, MILLS, and GLASSMAN), 529

GLENN, WILLIAM W. L. Discussion of Thoracic Surgery Forum, 750

GODWIN, SAMUEL J. (*See* ENGELMAN, NYILAS, LACKNER, and GODWIN), 851

GOETZ, ROBERT H. (*See* BREGMAN and GOETZ), 577, 591

GONDOS, BERNARD, WHITE, PALMER, and BENFIELD, JOHN R. Histologic changes associated with rejection of canine lung transplants, 183

GONZALEZ-LAVIN, L. (*See* GEENS, GONZALEZ-LAVIN, DAWBARN, and ROSS), 262

GOTT, VINCENT L. (*See* GARDNER, BRANTIGAN, PERNA, BENDER, BRAWLEY, and GOTT), 844

XUM

—. (*See* LEAND, BENDER, MARTZ, CRISLER, AGNEW, and GOTT), 285
—. (*See* MURRAY, BRAWLEY, and GOTT), 34
—. Discussion of pulsatile left heart bypass for thoracic aneurysms, 576
GOURIN, ANATOLE, STREISAND, ROBERT L., GREINEDER, JÜRGEN K., and STUCKEY, JACKSON H. Protamine sulfate administration and the cardiovascular system, 193
—. (*See* STREISAND, GOURIN, and STUCKEY), 431
GREEN, DAVID C. (*See* TREASURE, GREEN, BEDYNEK, and HOPEMAN), 818
GREEN, GEORGE E. (*See* SPENCER, GREEN, TICE, WALLSH, MILLS, and GLASSMAN), 529
—. Discussion of emergency myocardial revascularization, 527
GREENFIELD, LAZAR J., REIF, MICHAEL E., and GUENTER, CLARENCE E. Hemodynamic and respiratory responses to transvenous pulmonary embolectomy, 890
GREHL, T. N. (*See* IBEN, PUPELLO, GREHL, and HURLEY), 908
GREINEDER, JÜRGEN K. (*See* GOURIN, STREISAND, GREINEDER, and STUCKEY), 193
GRIEPP, RANDALL B., DAILY, PAT O., and SHUMWAY, NORMAN E. Reply to thrombosis after pacemaker catheter implantation, 669 (Letter)
GRILLO, HERMES C., COOPER, J. D., GEFFIN, BENNIE, and PONTOPPIDAN, HENNING. A low-pressure cuff for tracheostomy tubes to minimize tracheal injury: a comparative clinical trial, 898, 907
—. Discussion of cuff volume and pressure in tracheostomy tube damage, 408
GRISHMAN, ARTHUR (*See* BEREGOVICH, REICHER-REISS, KUNSTADT, and GRISHMAN), 957
GROSS, LUDWIG (*See* ROSE, GROSS, and PROTOS), 965
GROSS, ROBERT E. (*See* DAS, ERAKLIS, ADAMS, and GROSS), 449
GROVER, FREDERICK L. (*See* PAPPAS, GROVER, SARCHE, and BLOUNT), 51
GROVES, LAURENCE K. (*See* EFFLER, FAVALORO, GROVES, and LOOP), 503
GUENTER, CLARENCE E. (*See* GREENFIELD, REIF, and GUENTER), 890
GUERIN, L. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707
GUISAN, MICHEL (*See* MOSER, HARSANY, HARVEY-SMITH, DURANTE, and GUISAN), 205
GUYTON, ROBERT A. (*See* BIANCO, SHANAHAN, OSTHEIMER, GUYTON, POWELL, and DAGGETT), 125

H

HAIDERER, OTTO. Discussion of Thoracic Surgery Forum, 693
HALLMAN, GRADY L. (*See* GERAMI, MESSMER, HALLMAN, and COOLEY), 366
—. (*See* MESSMER, OKIES, HALLMAN, and COOLEY), 938
HAMOUDA, FAROUK (*See* CHUA, IDRISS, HAMOUDA, RAGHUNATH, NEVILLE, and PIFARRÉ), 457
HANCOCK, WARREN D. (*See* REIS, HANCOCK, YARBROUGH, GLANCY, and MORROW), 683
HARKEN, DWIGHT E. (*See* LEFEMINE and HARKEN), 769
HARRIS, S. H. (*See* WOLCOTT, HARRIS, BRIGGS, DOBELL, and BROWN), 465
HARSANY, PAUL G. (*See* MOSER, HARSANY, HARVEY-SMITH, DURANTE, and GUISAN), 205
HARVEY-SMITH, WARWICK (*See* MOSER, HARSANY, HARVEY-SMITH, DURANTE, and GUISAN), 205
HASEGAWA, TSUGUO (*See* SAIGUSA, MIZUNO, UKISHIMA, HASEGAWA, and KOBAYASHI), 55
HATCHER, CHARLES R., JR., LOGUE, R. BRUCE, LOGAN, WILLIAM D., JR., SYMBAS, P. N., MANSOUR, KAMAL A., and ABBOTT, OSLER A. Pericardiectomy for recurrent pericarditis, 371
HAYWARD, NANCY J. (*See* CURRIE, HAYWARD, WESTLAKE, and WILLIAMS), 1
HESSEL, EUGENE A., II (*See* MANHAS, RITTENHOUSE, HESSEL, and MERENDINO), 781
HILL, J. DONALD (*See* ULLAL, KLUGE, HILL, KERTH, and GERBODE), 932
HIROSE, TERUO. Discussion of direct coronary artery surgery, 508
—. Discussion of Thoracic Surgery Forum, 695
HOIE, JOHAN, SYKES, BRIAN J., and SCHENK, WORTHINGTON G., JR. The influence of epsilon aminocaproic acid on cardiac performance: an experimental study in dogs, 255
HORIUCHI, TOGO, ABE, TADAAKI, OKADA, YOSHIYUKI, KURIBAYASHI, RYOSEI, SUZUKI, YASUYUKI, and ISHIZAWA, EIJI. Reconstruction of the main pulmonary artery with a valve-bearing tube graft made of autologous pericardium, 793
HOSIER, DON M. (*See* WILLIAMS, SCHILLER, CRAENEN, HOSIER, and SIRAK), 63
HOWELL, J. F. (*See* REUL, MORRIS, HOWELL, CRAWFORD, SANDIFORD, and WUKASCH), 511
HUANG, CHARLES L., NORICO, ARTURO P., and BAKER, R. ROBINSON. Changes in pulmonary blood flow produced by autotransplantation of the left lung and placement of an Ameroid constrictor on the right pulmonary artery, 131

HUDSON, BUDDY H. (*See* EBERT and HUDSON), 188
HUGHES, RICHARD K., and REEMTSMA, KEITH. Correction of coarctation of the aorta: manometric determination of safety during test occlusion, 31
—. (*See* DEPP and HUGHES), 658
HURLEY, E. J. (*See* IBEN, PUPELLO, GREHL, and HURLEY), 908
HUSSAIN, R. (*See* ROSENBERG, HUSSAIN, and LENAGHAN), 144
HUTCHIN, PETER, FRIEDMAN, PAUL J., and SALTZSTEIN, SIDNEY L. Congenital cystic adenomatoid malformation with anomalous blood supply, 220
HUTCHINSON, JOHN C. (*See* FISHMAN, EDMUNDS, HUTCHINSON, and ROE), 345

I

IBEN, A. B., PUPELLO, D. F., GREHL, T. N., and HURLEY, E. J. Prepulmonary oxygenation by peripheral cannulation for respiratory distress, 908, 913
IDRISS, FAROUK S. (*See* CHUA, IDRISS, HAMOUDA, RAGHUNATH, NEVILLE, and PIFARRÉ), 457
IMAI, YOHJI (*See* NOSÉ, IMAI, TAJIMA, OGAWA, KLAIN, and VON BALLY), 714
IONESCU, MARIAN I. Discussion of Thoracic Surgery Forum, 694
ISHIZAWA, EIJI (*See* HORIUCHI, ABE, OKADA, KURIBAYASHI, SUZUKI, and ISHIZAWA), 793
ISIN, EROL. Discussion of Thoracic Surgery Forum, 761

J

JACOBS, MARTIN G. (*See* RIBOT, GILBERT, ROTHFELD, PARSONNET, and JACOBS), 59
JAMPLIS, ROBERT W. Discussion of pericardiectomy for recurrent pericarditis, 377
JENKINS, JARRELL L. (*See* VEASY, CLARK, JUNG, JENKINS, and JENSON), 914
JENSON, CONRAD B. (*See* VEASY, CLARK, JUNG, JENKINS, and JENSON), 914
JOFFE, H. S., CHESLER, E., O'DONOVAN, T. G., and SCHRIRE, V. Successful correction of supradiaphragmatic total anomalous pulmonary venous drainage with obstruction in a 3-month-old infant, 238
JOHNSON, JULIAN. Discussion of surgical treatment of bronchogenic carcinoma, 561
JOHNSON, ROLLIN, and LINDSKOG, GUSTAF E. Further studies on factors influencing collateral ventilation, 321
JOHNSON, VAUGHAN, and EISEMAN, B. Reinforcement of ventilation with electrophrenic pacing of the paralyzed diaphragm, 651
JOHNSON, W. DUDLEY. Discussion of direct coronary artery surgery, 509
JOSEPH, WILLIAM L., and MORTON, DONALD L. Influence of ischemia and hypothermia on the ability of the transplanted primate lung to provide immediate and total respiratory support, 752
JOYNT, GEORGE H. Discussion of surgical treatment of mediastinal tumors, 391
JUDE, JAMES R. (*See* BOLOOKI, RUBINSON, MICHIE, and JUDE), 543, 553
—. Discussion of homografts for mitral valve replacement, 343
JUNG, A. LARRY (*See* VEASY, CLARK, JUNG, JENKINS, and JENSON), 914

K

KAHN, DONALD. Discussion of direct coronary artery surgery, 509
KAISER, GERARD A. (*See* BUSH, ZORN, PATTERSON, and KAISER), 68
KAKOS, GERARD S. (*See* KILMAN, WILLIAMS, KAKOS, MOLNAR, and RYAN), 226
KAWAI, JUN (*See* KWAN-GETT, VAN KAMPEN, KAWAI, EASTWOOD, and KOLFF), 880
KAWASHIMA, YASUNARU, FUJITA, TSUYOSHI, MIYAMOTO, TAKESHI, and MANABE, HISAO. Intraventricular rerouting of blood for the correction of Taussig-Bing malformation, 825
KENNEDY, L. JAMES, JR., BIEBER, C. P., and MITCHINSON, M. J. Aortic histopathology in human cardiac allografts, 42
KERGIN, FREDERICK G. Discussion of surgical treatment of bronchogenic carcinoma, 559
KERTH, WILLIAM J. (*See* ULLAL, KLUGE, HILL, KERTH, and GERBODE), 932
KHICHA, GYAN C. J. (*See* ESCANO, BERROYA, GIANFRANCESCO, MACASAET, and KHICHA), 454
KILMAN, JAMES W., WILLIAMS, THOMAS E., JR., KAKOS, GERARD S., MOLNAR, WILLIAM, and RYAN, JOSEPH M. Budd-Chiari syndrome due to congenital obstruction of the Eustachian valve of the inferior vena cava, 226
KIRSCHNER, PAUL A. Discussion of surgical implications of intracavitary mycetomas, 421
KLAIN, MIROSLAV (*See* NOSÉ, IMAI, TAJIMA, OGAWA, KLAIN, and VON BALLY), 714
KLATT, KENNETH M. (*See* QUERIMIT, KLATT, and KRONCKE), 307
KLUGE, TROND H. (*See* ULLAL, KLUGE, HILL, KERTH, and GERBODE), 932
KOBAYASHI, HIROSHI (*See* SAIGUSA, MIZUNO, UKISHIMA, HASEGAWA, and KOBAYASHI), 55
KOERNER, SPENCER K. (*See* FURMAN, KOERNER, ESCHER, PAPOWITZ, BENJAMIN, and TARJAN), 743

XUM

KOH, YEONG-CHEOL (*See* TUNELL, KOH, and ADKINS), 563

KOLFF, W. J. (*See* KWAN-GETT, VAN KAMPEN, KAWAI, EASTWOOD, and KOLFF), 880

KOPRIVA, CHARLES J. (*See* RATLIFF, FLETCHER, KOPRIVA, ATKINS, and AUSSEM), 638

KORNS, MICHAEL E. (*See* TECTOR, BOYD, and KORNS), 592

KOSEK, JON C. (*See* BUCH, KOSEK, and ANGELL), 696

KRONCKE, GEORGE M. (*See* QUERIMIT, KLATT, and KRONCKE), 307

KRUYSWIJK, H. H. (*See* BOONTJE and KRUYSWIJK), 618

KUMAR, A. EDALJI, PLZAK, L. F., JR., GAMBLE, W. J., and MONROE, R. G. Coronary flow and end-diastolic pressure during prolonged cardiopulmonary bypass, 12

KUNSTADT, DOROTHY (*See* BEREGOVICH, REICHER-REISS, KUNSTADT, and GRISHMAN), 957

KURIBAYASHI, RYOSEI (*See* HORIUCHI, ABE, OKADA, KURIBAYASHI, SUZUKI, and ISHIZAWA), 793

KWAN-GETT, CLIFFORD S., VAN KAMPEN, KENT R., KAWAI, JUN, EASTWOOD, NEIL, and KOLFF, W. J. Results of total artificial heart implantation in calves, 880, 889

L

LACKNER, HENRIETTE (*See* ENGELMAN, NYILAS, LACKNER, and GODWIN), 851

LAFARGE, C. G. (*See* BERNHARD, LAFARGE, BANKOLE, BORNHORST, and BUTTON), 859

LAMBERT, ADRAIN. Surgical correction of esophageal obstruction due to tortuosity of aorta: case report describing relief by means of new operative procedure, 973

LAMBERT, CARY J., ADAM, MAURICE, GEISLER, GERALD F., VERZOSA, EDUARDO, NAZARIAN, MANUCHER, and MITCHEL, BEN F., JR. Emergency myocardial revascularization for impending infarctions and arrhythmias, 522

LANGSTON, HIRAM T. (*See* BARKER, FABER, OSTERMILLER, and LANGSTON), 393

LAWRENCE, G. HUGH, MCKAY, HUNTER A., and SHERENSKY, ROBERT T. Effective measures in the prevention of intraoperative aeroembolus, 731

LEAND, PAUL M., BENDER, HARVEY W., JR., MARTZ, MARK N., CRISLER, CRILE, AGNEW, HEWES D., and GOTT, VINCENT L. A simple method for closure of the Potts anastomosis with a mechanical stapler, 285

LEAPE, LUCIAN L. Bronchial avulsion: successful repair after bilateral pneumothorax, 470

LEFEMINE, ARMAND A., and HARKEN, DWIGHT E. Extracorporeal support of the circulation by means of venoarterial bypass with an oxygenator: case study of 8 patients in shock, 769

LENAGHAN, R. (*See* ROSENBERG, HUSSAIN, and LENAGHAN), 144

LENNOX, S. C., BLESOVSKY, A., CHANG, V. P., CLELAND, W. P., GHADIALI, P. E., and APARICIO, S. G. R. Frame-mounted homografts for mitral valve replacement, 337, 344

LERNER, E. H. (*See* TYERS, FORESMAN, PARK, LERNER, TORMAN, and WALDHAUSEN), 763

LESSANA, A. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZLIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707

LEVEEN, H. H. (*See* PICCONE, THOMPSON, and LEVEEN), 250

LINDEN, JANET M. (*See* CHING, AYRES, PAEGLE, LINDEN, and NEALÓN), 402

LINDSKOG, GUSTAF E. (*See* JOHNSON and LINDSKOG), 321

LOGAN, WILLIAM D., JR. (*See* HATCHER, LOGUE, LOGAN, SYMBAS, MANSOUR, and ABBOTT), 371, 378

LOGUE, R. BRUCE (*See* HATCHER, LOGUE, LOGAN, SYMBAS, MANSOUR, and ABBOTT), 371

LOOP, FLOYD D. (*See* EFFLER, FAVALORO, GROVES, and LOOP), 503

LUCAS, RUSSELL V., JR. (*See* CASTANEDA, NICOLOFF, MOLLER, and LUCAS), 926

LUI, ALFRED H. F. Multisaccular aneurysm of the proximal descending thoracic aorta: report of a case with associated coarctation, 813

LUNDBERG, HERBERT (*See* CAREY), 103

M

MACASAET, ROLANDO A. (*See* ESCANO, BERROYA, GIANFRANCESCO, MACASAET, and KHICHA), 454

MCGINNIS, GERALD E. (*See* MAIN, FECHT, PARK, MCGINNIS, and MAGOVERN), 837

MCGOON, DWIGHT C. (*See* CHING, DUSHANE, MCGOON, and DANIELSON), 117

—. (*See* SEKI and MCGOON), 919

—. (*See* STENSETH, DANIELSON, and MCGOON), 442

—. (*See* WYCHULIS, CONNOLLY, and MCGOON), 294, 608

MACGREGOR, D. (*See* TRUSLER, MACGREGOR, and MUSTARD), 803

MACHER, J. P. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707

MCKAY, HUNTER A. (*See* LAWRENCE, MCKAY, and SHERENSKY), 731

McKeown, John J. (*See* Solit, McKeown, Smullens, and Fraimow), 411, 421

McLaughlin, Joseph S. Discussion of management of persistent bronchopleural fistulas, 401

Macruz, Radi (*See* Verginelli, Martin, Barbero Marcial, Macruz, and Zerbini), 436

Magovern, George J. (*See* Main, Fecht, Park, McGinnis, and Magovern), 837

—. Discussion of cuff volume and pressure in tracheostomy tube damage, 410

Main, F. Beachley, Fecht, David C., Park, Sang Bock, McGinnis, Gerald E., and Magovern, George J. A new technique for rapid saphenous vein–coronary artery anastomoses, 837

Maloney, James V., Jr. (*See* Olinger, Rio, and Maloney), 357

Manabe, Hisao (*See* Kawashima, Fujita, Miyamoto, and Manabe), 825

Manhas, Dev R., Rittenhouse, Edward A., Hessel, Eugene A., II, and Merendino, K. Alvin. Reconstructive surgery for the treatment of mitral incompetence: early and late results in 91 patients, 781

Mansour, Kamal A. (*See* Hatcher, Logue, Logan, Symbas, Mansour, and Abbott), 371

Martin, José (*See* Verginelli, Martin, Barbero Marcial, Macruz, and Zerbini), 436

Martz, Mark N. (*See* Leand, Bender, Martz, Crisler, Agnew, and Gott), 285

Meagher, Dennis M., Piermattei, Donald L., and Swan, Henry. Platelet aggregation during progressive hemorrhagic shock in pigs: possible effects on the postperfusion syndrome, 822

Merendino, K. Alvin (*See* Manhas, Rittenhouse, Hessel, and Merendino), 781

—. (*See* Reichenbach, Mohri, Sands, and Merendino), 690

Merin, G. (*See* Borman, Tannenbaum, Merin, Schulman, and Milwidsky), 98

Messmer, Bruno J., Okies, J. Edward, Hallman, Grady L., and Cooley, Denton A. Mitral valve replacement with the Björk-Shiley tilting-disc prosthesis, 938

—. (*See* Gerami, Messmer, Hallman, and Cooley), 366

Michie, David D. (*See* Bolooki, Rubinson, Michie, and Jude), 543

Miller, Don R. Discussion of Thoracic Surgery Forum, 906

Mills, Noel L. (*See* Spencer, Green, Tice, Wallsh, Mills, and Glassman), 529

Milwidsky, H. (*See* Borman, Tannenbaum, Merin, Schulman, and Milwidsky), 98

Mirhoseini, M. Discussion of Thoracic Surgery Forum, 913

Mitchel, Ben F., Jr. (*See* Lambert, Adam, Geisler, Verzosa, Nazarian, and Mitchell), 522

Mitchinson, M. J. (*See* Kennedy, Bieber, and Mitchinson), 42

Miyagishima, Robert T. (*See* Evans, Miyagishima, Tutassaura, Ameli, and Baird), 76

Miyamoto, Takeshi (*See* Kawashima, Fujita, Miyamoto, and Manabe), 825

Mizuno, Akira (*See* Saigusa, Mizuno, Ukishima, Hasegawa, and Kobayashi), 55

Mobin-Uddin, Kazi (*See* Trinkle, Mobin-Uddin, and Bryant), 281

Mohri, Hitoshi (*See* Reichenbach, Mohri, Sands, and Merendino), 690

Moller, James H. (*See* Castaneda, Nicoloff, Moller, and Lucas), 926

Molnar, William (*See* Kilman, Williams, Kakos, Molnar, and Ryan), 226

Monroe, R. G. (*See* Kumar, Plzak, Gamble, and Monroe), 12

Moore, Clarence (*See* Carey), 103

Morgan, Jacob R. (*See* Rogers, Morgan, Forker, and Fosburg), 810

Morris, George C., Jr. (*See* Reul, Morris, Howell, Crawford, Sandiford, and Wukasch), 511, 521

Morrow, Andrew G. (*See* Reis, Hancock, Yarbrough, Glancy, and Morrow), 683

Morse, Dryden P. Discussion of open mitral commissurotomy, 369

Morton, Donald L. (*See* Joseph and Morton), 752

Moser, Kenneth M., Harsany, Paul G., Harvey-Smith, Warwick, Durante, Peter L., and Guisan, Michel. Reversible interruption of inferior vena cava by means of a balloon catheter: preliminary report, 205

Mulder, Donald G. Discussion of myocardial contractility after coronary bypass grafts, 552

Mundth, Eldred D. Discussion of bypass grafts for congestive heart failure, 541

—. Discussion of emergency myocardial revascularization, 527

Munnell, Edward R. Discussion of closed valvulotomy for calcific mitral stenosis, 364

—. Discussion of Thoracic Surgery Forum, 897

Murphy, Anthony E., Jr. (*See* Bernstein and Murphy), 950

Murphy, D. Alton, Murphy, David R., Gibbons, James E., and Dobell, Anthony R. C. Surgical treatment of pulmonary atresia with intact interventricular septum, 213

MURPHY, DAVID R. (*See* MURPHY, MURPHY, GIBBONS, and DOBELL), 213

MURRAY, GORDON F., BRAWLEY, ROBERT K., and GOTT, VINCENT L. Reconstruction of the innominate artery by means of a temporary heparin-coated shunt bypass, 34

MUSTARD, W. T. (*See* TRUSLER, MACGREGOR, and MUSTARD), 803

N

NAEF, A. P. Discussion of management of persistent bronchopleural fistulas, 400

NAZARIAN, MANUCHER (*See* LAMBERT, ADAM, GEISLER, VERZOSA, NAZARIAN, and MITCHEL), 522

NEALON, THOMAS F., JR. (*See* CHING, AYRES, PAEGLE, LINDEN, and NEALON), 402

NELSON, ARTHUR R. (*See* DESSER, BENCHIMOL, CORNELL, and NELSON), 830

NEVILLE, WILLIAM E. (*See* CHUA, IDRISS, HAMOUDA, RAGHUNATH, NEVILLE, and PIFARRÉ), 457

—. Discussion of pericardiectomy for recurrent pericarditis, 377

NICOLOFF, DEMETRE M. (*See* CASTANEDA, NICOLOFF, MOLLER, and LUCAS), 926

NIKAIDOH, HISASHI, and SWENSON, ORVAR. The ectopic origin of the right main bronchus from the esophagus: a case of pneumonectomy in a neonate, 151

NORICO, ARTURO P. (*See* HUANG, NORICO, and BAKER), 131

NOSÉ, YUKIHIKO, IMAI, YOHJI, TAJIMA, KUNIYOSHI, OGAWA, HIDEMICHI, KLAIN, MIROSLAV, and VON BALLY, KARL. Cardiac prosthesis utilizing biological material, 714

NYILAS, EMERY (*See* ENGELMAN, NYILAS, LACKNER, and GODWIN), 851

O

OCHSNER, JOHN L. Discussion of cuff volume and pressure in tracheostomy tube damage, 410

O'DONOVAN, T. G. (*See* JOFFE, CHESLER, O'DONOVAN, and SCHRIRE), 238

OGAWA, HIDEMICHI (*See* NOSÉ, IMAI, TAJIMA, OGAWA, KLAIN, and VON BALLY), 714

OKADA, YOSHIYUKI (*See* HORIUCHI, ABE, OKADA, KURIBAYASHI, SUZUKI, and ISHIZAWA), 793

OKIES, J. EDWARD (*See* MESSMER, OKIES, HALLMAN, and COOLEY), 938

OLINGER, GORDON N., RIO, FRED W., and MALONEY, JAMES V., JR. Closed valvulotomy for calcific mitral stenosis, 357, 365

OSTERMILLER, WILLIAM E., JR. (*See* BARKER, FABER, OSTERMILLER, and LANGSTON), 393

OSTHEIMER, GERARD W. (*See* BIANCO, SHANAHAN, OSTHEIMER, GUYTON, POWELL, and DAGGETT), 125

OVERHOLT, RICHARD H. Discussion of surgical treatment of bronchogenic carcinoma, 560

P

PADULA, RICHARD T., EISENSTAT, THEODORE E., BRONSTEIN, MERRILL H., and CAMISHION, RUDOLPH C. Intracardiac air following cardiotomy: location, causative factors, and a method for removal, 736

PAEGLE, ROLAND P. (*See* CHING, AYRES, PAEGLE, LINDEN, and NEALON), 402

PAPOWITZ, A. JOEL (*See* FURMAN, KOERNER, ESCHER, PAPOWITZ, BENJAMIN, and TARJAN), 743

PAPPAS, GEORGE, GROVER, FREDERICK L., SARCHE, MICHAEL A., and BLOUNT, S. GILBERT, JR. Congenital mitral stenosis treated by aortic homograft valve replacement: a case report, 51

—. Discussion of homografts for mitral valve replacement, 343

PARK, C. D. (*See* TYERS, FORESMAN, PARK, LERNER, TORMAN, and WALDHAUSEN), 763

PARK, SANG BOCK (*See* MAIN, FECHT, PARK, MCGINNIS, and MAGOVERN), 837

PARSONNET, VICTOR (*See* RIBOT, GILBERT, ROTHFELD, PARSONNET, and JACOBS), 59

PATTERSON, RICHARD W. Time-dependent carbon dioxide–induced changes in dynamic lung compliance, 645

PATTERSON, THOMAS L. (*See* BUSH, ZORN, PATTERSON, and KAISER), 68

PAULSON, DONALD L., and URSCHEL, HAROLD C., JR. Selectivity in the surgical treatment of bronchogenic carcinoma, 554, 561

PAYNE, W. SPENCER (*See* WYCHULIS, PAYNE, CLAGETT, and WOOLNER), 379, 392

PECORA, DAVID. Discussion of coexistent tuberculosis and carcinoma of lung, 566

PERNA, A. M. (*See* GARDNER, BRANTIGAN, PERNA, BENDER, BRAWLEY, and GOTT), 844

PHALAKORNKUL, SURIYA (*See* WELLS, PHALAKORNKUL, RAMSEY, and WHEAT), 869

PICCONE, V. A., THOMPSON, E., and LEVEEN, H. H. Shunt grafts and aneurysm resection: definitive treatment of selected thoracic aortic aneurysms, 250

PIERMATTEI, DONALD L. (*See* MEAGHER, PIERMATTEI, and SWAN), 822

PIFARRÉ, ROQUE (*See* CHUA, IDRISS, HAMOUDA, RAGHUNATH, NEVILLE, and PIFARRÉ), 457

—. Discussion of emergency myocardial revascularization, 526

PLZAK, L. F., JR. (*See* KUMAR, PLZAK, GAMBLE, and MONROE), 12

PONTOPPIDAN, HENNING (*See* GRILLO, COOPER, GEFFIN, and PONTOPPIDAN), 898
PORTER, JOHN M., BALL, ANNE P., and SILVER, DONALD. Mesothelial fibrinolysis, 725
POWELL, WM. JOHN, JR. (*See* BIANCO, SHANAHAN, OSTHEIMER, GUYTON, POWELL, and DAGGETT), 125
PRIGENT, C. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707
PROTOS, ANGELO (*See* ROSE, GROSS, and PROTOS), 965
PUPELLO, D. F. (*See* IBEN, PUPELLO, GREHL, and HURLEY), 908

Q

QUERIMIT, ALBERTO S., KLATT, KENNETH M., and KRONCKE, GEORGE M. Permanent transvenous pacing: a report on 70 patients, 307

R

RAGHUNATH, T. K. (*See* CHUA, IDRISS, HAMOUDA, RAGHUNATH, NEVILLE, and PIFARRÉ), 457
RAJU, SESHADRI. Discussion of Thoracic Surgery Forum, 724
RAMSEY, HOWARD W., WILLIAMS, J. CURTIS, JR., VERNON, CHARLES R., WHEAT, MYRON W., DAICOFF, GEORGE R., and BARTLEY, THOMAS D. Hemodynamic findings following replacement of the mitral valve with the Beall valve prosthesis, 624
—. (*See* BORUCHOW, RAMSEY, and WHEAT), 290
—. (*See* WELLS, PHALAKORNKUL, RAMSEY, and WHEAT), 869
RATLIFF, JACK L., FLETCHER, JOHN R., KOPRIVA, CHARLES J., ATKINS, CLAUDE, and AUSSEM, JOHN W. Pulmonary contusion: a continuing management problem, 638
REED, WILLIAM A. (*See* SETHI and REED), 138
REEMTSMA, KEITH (*See* HUGHES and REEMTSMA), 31
REICHENBACH, DENNIS D., MOHRI, HITOSHI, SANDS, MURRAY, and MERENDINO, K. A. Viability of connective tissue cells following storage of aortic valve leaflets, 690
REICHER-REISS, HENRIETTA (*See* BEREGOVICH, REICHER-REISS, KUNSTADT, and GRISHMAN), 957
REIF, MICHAEL E. (*See* GREENFIELD, REIF, and GUENTER), 890
REIS, ROBERT L., HANCOCK, WARREN D., YARBROUGH, JOHN W., GLANCY, D. LUKE, and MORROW, ANDREW G. The flexible stent: a new concept in the fabrication of tissue heart valve prostheses, 683
REUL, GEORGE J., MORRIS, GEORGE C., JR., HOWELL, J. F., CRAWFORD, E. STANLEY, SANDIFORD, FRANK M., and WUKASCH, DON C. The safety of ischemic cardiac arrest in distal coronary artery bypass, 511
RIBOT, SEYMOUR, GILBERT, LAWRENCE, ROTHFELD, EDWIN L., PARSONNET, VICTOR, and JACOBS, MARTIN G. Bacterial endocarditis with pulmonary edema necessitating mitral valve replacement in a hemodialysis-dependent patient, 59
RIO, FRED W. (*See* OLINGER, RIO, and MALONEY), 357
RITTENHOUSE, EDWARD A. (*See* MANHAS, RITTENHOUSE, HESSEL, and MERENDINO), 781
ROBINSON, GEORGE. Discussion of pulsatile left heart bypass for thoracic aneurysms, 575
ROE, BENSON B. (*See* FISHMAN, EDMUNDS, HUTCHINSON, and ROE), 345, 356
ROGERS, ALBERT K., MORGAN, JACOB R., FORKER, ALAN D., and FOSBURG, RICHARD G. Supravalvular stenosis after disc mitral valve replacement, 810
ROJAS, MIGUEL C. (*See* TAMAYO and ROJAS), 268
ROSE, MARTIN E., GROSS, LUDWIG, and PROTOS, ANGELO. Transvenous pacemaker implantation by way of an anomalous left superior vena cava, 965
ROSENBERG, J. C., HUSSAIN, R., and LENAGHAN, R. Isoproterenol and norepinephrine therapy for pulmonary embolism shock, 144
ROSENSWEIG, JACOB. Discussion of dual-chambered intra-aortic balloon assist, 590
ROSS, D. N. (*See* GEENS, GONZALEZ-LAVIN, DAWBARN, and ROSS), 262
ROSS, KEITH. Discussion of homografts for mitral valve replacement, 343
ROTHFELD, EDWIN L. (*See* RIBOT, GILBERT, ROTHFELD, PARSONNET, and JACOBS), 59
RUBINSON, RICHARD M. (*See* BOLOOKI, RUBINSON, MICHIE, and JUDE), 543
RYAN, JOSEPH M. (*See* KILMAN, WILLIAMS, KAKOS, MOLNAR, and RYAN), 226

S

SACKS, ELLIOT (*See* CAREY), 103
SAIGUSA, MASAHIRO, MIZUNO, AKIRA, UKISHIMA, HIROSHI, HASEGAWA, TSUGUO, and KOBAYASHI, HIROSHI. Tricuspid valve replacement with a preserved aortic valve homograft for Ebstein's malformation: a case report, 55
SALTZSTEIN, SIDNEY L. (*See* HUTCHIN, FRIEDMAN, and SALTZSTEIN), 220
SANDIFORD, FRANK M. (*See* REUL, MORRIS, HOWELL, CRAWFORD, SANDIFORD, and WUKASCH), 511

SANDS, MURRAY (*See* REICHENBACH, MOHRI, SANDS, and MERENDINO), 690

SARCHE, MICHAEL A. (*See* PAPPAS, GROVER, SARCHE, and BLOUNT), 51

SARSAM, ADNAN. Surgery of pulmonary hydatid cysts: review of 155 cases, 663

SAWYER, PHILIP N. Discussion of Thoracic Surgery Forum, 682

SCANNELL, J. GORDON. Discussion of closed valvulotomy for calcific mitral stenosis, 364

SCHENK, WORTHINGTON G., JR. (*See* HOIE, SYKES, and SCHENK), 255

SCHILLER, MEDAD (*See* WILLIAMS, SCHILLER, CRAENEN, HOSIER, and SIRAK), 63

SCHRIRE, V. (*See* BECK, BARNARD, and SCHRIRE), 315

—. (*See* JOFFE, CHESLER, O'DONOVAN, and SCHRIRE), 238

SCHULMAN, B. (*See* BORMAN, TANNENBAUM, MERIN, SCHULMAN, and MILWIDSKY), 98

SCOTT, CALVIN (*See* CAREY), 103

SERRES, EDWARD J. (*See* CONNOLLY, WAKABAYASHI, GERMAN, STEMMER, and SERRES), 568

SEKI, SHUJI, and DANIELSON, GORDON K. Characteristics of cardiac reinnervation in growing calves, 602

—, and MCGOON, DWIGHT C. Surgical techniques for replacement of the interventricular septum, 919

—, TITUS, JACK L., and DANIELSON, GORDON K. Cardiac growth after cardiac autotransplantation in calves, 631

SEKI, YASUO (*See* WRIGHT, BERG, and SEKI), 473

SETHI, GULSHAN, and REED, WILLIAM A. Diaphragmatic malfunction in neonates and infants: diagnosis and treatment, 138

SHANAHAN, E. ANNE (*See* BIANCO, SHANAHAN, OSTHEIMER, GUYTON, POWELL, and DAGGETT), 125

SHERENSKY, ROBERT T. (*See* LAWRENCE, MCKAY and SHERENSKY), 731

SHIELDS, THOMAS W. Discussion of surgical treatment of mediastinal tumors, 391

SHUMWAY, NORMAN E. (*See* COHN, ANGELL, and SHUMWAY), 423

—. (*See* GRIEPP, DAILY, and SHUMWAY), 669

SIDERYS, HARRY, and STRANGE, PAUL S. Rupture of the heart due to blunt trauma: successful treatment utilizing cardiopulmonary bypass, 84

SILVER, DONALD (*See* PORTER, BALL, and SILVER), 725

SIRAK, HOWARD D. (*See* WILLIAMS, SCHILLER, CRAENEN, HOSIER, and SIRAK), 63

SKALKEAS, G. D. (*See* COKKINOS, VORIDIS, BAKOULAS, THEODOSSIOU, and SKALKEAS), 947

SLIM, MICHAEL. Discussion of pericardiectomy for recurrent pericarditis, 377

SMELOFF, EDWARD A. Discussion of Smeloff-Cutter mitral prosthesis, 355

SMULLENS, STANTON (*See* SOLIT, MCKEOWN, SMULLENS, and FRAIMOW), 411

SOLIT, ROBERT W., MCKEOWN, JOHN J., JR., SMULLENS, STANTON, and FRAIMOW, WILLIAM. The surgical implications of intracavitary mycetomas (fungus balls), 411

SPENCER, FRANK C. Binocular loupes (microtelescopes) for coronary artery surgery, 163

—, GREEN, GEORGE E., TICE, DAVID A., WALLSH, EUGENE, MILLS, NOEL L., and GLASSMAN, EPHRAIM. Coronary artery bypass grafts for congestive heart failure: a report of experiences with 40 patients, 529, 541

STANLEY, P. (*See* FRIEDLI, DAVIGNON, and STANLEY), 301

STARR, ALBERT. Discussion of Thoracic Surgery Forum, 681

STEMMER, EDWARD A. (*See* CONNOLLY, WAKABAYASHI, GERMAN, STEMMER, and SERRES), 568

—. Discussion of Thoracic Surgery Forum, 750

STENSETH, JON H., DANIELSON, GORDON K., and MCGOON, DWIGHT C. Pericardial patch enlargement of the aortic outflow tract, 442

STRANGE, PAUL S. (*See* SIDERYS and STRANGE), 84

STREISAND, ROBERT L., GOURIN, ANATOLE, and STUCKEY, JACKSON H. Respiratory and metabolic alkalosis and myocardial contractility, 431

—. (*See* GOURIN, STREISAND, GREINEDER, and STUCKEY), 193

STUCKEY, JACKSON H. (*See* GOURIN, STREISAND, GREINEDER, and STUCKEY), 193

—. (*See* STREISAND, GOURIN, and STUCKEY), 431

SUZUKI, YASUYUKI (*See* HORIUCHI, ABE, OKADA, KURIBAYASHI, SUZUKI, and ISHIZAWA), 793

SWAN, HENRY (*See* MEAGHER, PIERMATTEI, and SWAN), 822

SWENSON, ORVAR (*See* NIKAIDOH and SWENSON), 151

SYKES, BRIAN J. (*See* HOIE, SYKES, and SCHENK), 255

SYMBAS, P. N. (*See* HATCHER, LOGUE, LOGAN, SYMBAS, MANSOUR, and ABBOTT), 371

T

TABER, RODMAN E. Discussion of Thoracic Surgery Forum, 741

TAJIMA, KUNIYOSHI (*See* NOSÉ, IMAI, TAJIMA, OGAWA, KLAIN, and VON BALLY), 714

TAMAYO, J. LINCOLN, and ROJAS, MIGUEL C. Granular cell myoblastoma (granular cell schwannoma) of the right upper bronchus coexisting with a bronchogenic carcinoma: report of the first case in the literature, 268

TANNENBAUM, J. (*See* BORMAN, TANNENBAUM, MERIN, SCHULMAN, and MILWIDSKY), 98

TARJAN, PETER (*See* FURMAN, KOERNER, ESCHER, PAPOWITZ, BENJAMIN, and TARJAN), 743

TATOOLES, CONSTANTINE (*See* BRAUNWALD, TATOOLES, TURINA, and DETMER), 673

TECTOR, ALFRED J., BOYD, WILLIAM C., and KORNS, MICHAEL E. Aortic valve allograft rejection, 592

THEODOSSIOU, A. (*See* COKKINOS, VORIDIS, BAKOULAS, THEODOSSIOU, and SKALKEAS), 947

THOMAS, PAUL A., and BUCHMAN, ROBERT J. Successful 20 hour preservation of ischemic canine lung by hypothermia combined with minimal ventilation, 176

THOMAS, THOMAS V. Diagnosis of disrupted prosthetic valves, 27

THOMPSON, E. (*See* PICCONE, THOMPSON, and LEVEEN), 250

TICE, DAVID A. (*See* SPENCER, GREEN, TICE, WALLSH, MILLS, and GLASSMAN), 529

TITUS, JACK L. (*See* SEKI, TITUS, and DANIELSON), 631

TORMAN, HOWARD A. (*See* TYERS, FORESMAN, PARK, LERNER, TORMAN, and WALDHAUSEN), 763

TOUCHOT, B. (*See* CARPENTIER, DELOCHE, LESSANA, PRIGENT, BEUZELIN, CARPENTIER, GUERIN, MACHER, TOUCHOT, BARON, DAHAN, and DUBOST), 707

TREASURE, ROBERT L., GREEN, DAVID C., BEDYNEK, JULIUS L., JR., and HOPEMAN, ALAN R. Aortocardiac fistula, 818

TRIMBLE, ALAN S. (*See* ALDRIDGE and TRIMBLE), 7

TRINKLE, J. KENT. Fibrous mediastinitis presenting as mitral stenosis, 161

—, MOBIN-UDDIN, KAZI, and BRYANT, LESTER R. Primary anastomosis of aneurysms of the ascending aorta caused by cystic medial necrosis, 281

—. Discussion of pulsatile left heart bypass for thoracic aneurysms, 575

TRUSLER, G. A., MACGREGOR, D., and MUSTARD, W. T. Cavopulmonary anastomosis for cyanotic congenital heart disease, 803

TUNELL, WILLIAM P., KOH, YEONG-CHEOL, and ADKINS, PAUL C. The dilemma of coincident active pulmonary tuberculosis and carcinoma of the lung, 563, 567

TURINA, MARKO (*See* BRAUNWALD, TATOOLES, TURINA, and DETMER), 673

TURNER, LEON (*See* CAREY), 103

TUTASSAURA, HERNANDO (*See* EVANS, MIYAGISHIMA, TUTASSAURA, AMELI, and BAIRD), 76

TYERS, G. FRANK O., FORESMAN, R. A., JR., PARK, C. D., LERNER, E. H. TORMAN, HOWARD A., and WALDHAUSEN, J. A. Preclinical testing of a redundant, rechargeable cardiac pacemaker, 763, 768

U

UKISHIMA, HIROSHI (*See* SAIGUSA, MIZUNO, UKISHIMA, HASEGAWA, and KOBAYASHI), 55

ULLAL, SHIV R., KLUGE, TROND H., HILL, J. DONALD, KERTH, WILLIAM J., and GERBODE, FRANK. Left atrial thrombi in mitral valve disease, 932

URSCHEL, HAROLD C., JR. (*See* PAULSON and URSCHEL), 554

—. Discussion of bypass grafts for congestive heart failure, 540

V

VANDERHOFT. Discussion of surgical treatment of bronchogenic carcinoma, 560

VAN KAMPEN, KENT R. (*See* KWAN-GETT, VAN KAMPEN, KAWAI, EASTWOOD, and KOLFF), 880

VEASY, L. GEORGE, CLARK, JUSTIN S., JUNG, A. LARRY, JENKINS, JARRELL L., and JENSON, CONRAD B. A new system for computerized automated blood gas analysis, 914

VEITH, FRANK J. Discussion of Thoracic Surgery Forum, 762

VERGINELLI, GERALDO, MARTIN, JOSÉ, BARBERO MARCIAL, MIGUEL, MACRUZ, RADI, and ZERBINI, E. J. Pulmonary valve insufficiency in a case of tetralogy of Fallot after Brock's operation: correction by heterologous aortic graft, 436

VERNON, CHARLES R. (*See* RAMSEY, WILLIAMS, VERNON, WHEAT, DAICOFF, and BARTLEY), 624

VERZOSA, EDUARDO (*See* LAMBERT, ADAM, GEISLER, VERZOSA, NAZARIAN, and MITCHEL), 522

VON BALLY, KARL (*See* NOSÉ, IMAI, TAJIMA, OGAWA, KLAIN, and VON BALLY), 714

VORIDIS, E. (*See* COKKINOS, VORIDIS, BAKOULAS, THEODOSSIOU, and SKALKEAS), 947

W

WAKABAYASHI, AKIO (*See* CONNOLLY, WAKABAYASHI, GERMAN, STEMMER, and SERRES), 568

—. Discussion of Thoracic Surgery Forum, 858

WALDHAUSEN, J. A. (*See* TYERS, FORESMAN, PARK, LERNER, TORMAN, and WALDHAUSEN), 763

WALLSH, EUGENE (*See* SPENCER, GREEN, TICE, WALLSH, MILLS, and GLASSMAN), 529

WEBB, WATTS R. Discussion of cuff volume and pressure in tracheostomy tube damage, 409

—. Discussion of pericardiectomy for recurrent pericarditis, 376

—. Discussion of Thoracic Surgery Forum, 741

WELLS, PHILIP H., PHALAKORNKUL, SURIYA, RAMSEY, HOWARD W., and WHEAT, MYRON W., JR. Cardiac function after prolonged storage in an intermediate biologic host, 869

WESTLAKE, G. (*See* CURRIE, HAYWARD, WESTLAKE, and WILLIAMS), 1

WHEAT, MYRON W., JR. (*See* BORUCHOW, RAMSEY, and WHEAT), 290

—. (*See* RAMSEY, WILLIAMS, VERNON, WHEAT, DAICOFF, and BARTLEY), 624

—. (*See* WELLS, PHALAKORNKUL, RAMSEY, and WHEAT), 869

WHITE, PALMER (*See* GONDOS, WHITE, and BENFIELD), 183

WILLIAMS, G. DOYNE. Discussion of surgical implications of intracavitary mycetomas, 421

—. Discussion of Thoracic Surgery Forum, 762

WILLIAMS, J. (*See* CURRIE, HAYWARD, WESTLAKE, and WILLIAMS), 1

WILLIAMS, J. CURTIS, JR. (*See* RAMSEY, WILLIAMS, VERNON, WHEAT, DAICOFF, and BARTLEY), 624

WILLIAMS, THOMAS E., JR., SCHILLER, MEDAD, CRAENEN, JOSEPHA, HOSIER, DON M., and SIRAK, HOWARD D. Pulmonary artery aneurysm: successful excision and replacement of the main pulmonary artery, 63

—. (*See* KILMAN, WILLIAMS, KAKOS, MOLNAR, and RYAN), 226

WILLIAMSON, HERBERT (*See* CAREY), 103

WOLCOTT, M. W., HARRIS, S. H., BRIGGS, J. N., DOBELL, A. R. C., and BROWN, R. K. Hydatid disease of the lung, 465

WOOLNER, LEWIS B. (*See* WYCHULIS, PAYNE, CLAGETT, and WOOLNER), 379

WRIGHT, W. BRANDON, BERG, PAUL, and SEKI, YASUO. An evaluation of surgical interruption and spontaneous return of the systemic arterial circulation of the lung, 473

WUKASCH, DON C. (*See* REUL, MORRIS, HOWELL, CRAWFORD, SANDIFORD, and WUKASCH), 511

WYCHULIS, ADAM K., CONNOLLY, DANIEL C., and MCGOON, DWIGHT C. Pericardial cysts, tumors, and fat necrosis, 294

—, —, and —. Surgical treatment of pericarditis, 608

—, PAYNE, W. SPENCER, CLAGETT, O. THERON, and WOOLNER, LEWIS B. Surgical treatment of mediastinal tumors: a 40 year experience, 379

Y

YALAV, E., BROWN, A. HEDLEY, and BRAIMBRIDGE, M. V. Surgery for atrial septal defect in patients over 60 years of age: report of surgical correction in 12 patients, 788

YARBROUGH, JOHN W. (*See* REIS, HANCOCK, YARBROUGH, GLANCY, and MORROW), 683

Z

ZERBINI, E. J. (*See* VERGINELLI, MARTIN, BARBERO MARCIAL, MACRUZ, and ZERBINI), 436

ZIMMERMAN, HERBERT B. (*See* BERGMANN and ZIMMERMAN), 669

ZORN, GEORGE L. (*See* BUSH, ZORN, PATTERSON, and KAISER), 68

Subject index*

A

Acid, aminocaproic, epsilon, on cardiac performance, influence of: experimental study in dogs (Hoie et al.), 255

Acrylic resin, resection of entire sternum and replacement with: report of case of giant chondromyxoid fibroma (Alonso-Lej and de Linera), 271

Adenomatoid malformation, cystic, congenital, with anomalous blood supply (Hutchin et al.), 220

Aeroembolus, intraoperative, effective measures in prevention of (Lawrence et al.), 731

Air, intracardiac, following cardiotomy: location, causative factors, and method for removal (Padula et al.), 736

Alkalosis, respiratory and metabolic, and myocardial contractility (Streisand et al.), 431

Allograft(s), cardiac, human, aortic histopathology in (Kennedy et al.), 42

rejection, valve, aortic (Tector et al.), 592

American Association for Thoracic Surgery: Announcement of 1972 Annual Meeting, 335, 501, 671, 835

Annual meeting notes, 165

Roster of Members, 481

Board of Thoracic Surgery: Notice of examination, 166, 336, 502, 672, 978

Notice of changes in examination procedures, 978

Ameroid constrictor on right pulmonary artery, changes in pulmonary blood flow produced by autotransplantation of left lung and placement of (Huang et al.), 131

Aminocaproic acid, epsilon, on cardiac performance, influence of: experimental study in dogs (Hoie et al.), 255

Analysis, gas, blood, automated, computerized, new system for (Veasy et al.), 914

Anastomosis(es), cavopulmonary, for cyanotic congenital heart disease (Trusler et al.), 803

Anastomosis(es)—Cont'd

Potts, with mechanical stapler, simple method for closure of (Leand et al.), 285

primary, of aneurysms of ascending aorta caused by cystic medial necrosis (Trinkle et al.), 281

rapid saphenous vein–coronary artery, new technique for (Main et al.), 837

Anatomy, surgical, of pulmonary artery root in relation to pulmonary valve autograft and surgery of right ventricular outflow tract (Geens et al.), 262

Aneurysm(s) of aberrant retroesophageal right subclavian artery arising from Kommerell's diverticulum, repair of (Campbell), 330

artery, pulmonary: successful excision and replacement of main pulmonary artery (Williams et al.), 63

of ascending aorta caused by cystic medial necrosis, primary anastomosis of (Trinkle et al.), 281

multisaccular, of proximal descending thoracic aorta: report of case with associated coarctation (Lui), 813

resection, shunt grafts and: definitive treatment of selected thoracic aortic aneurysms (Piccone et al.), 250

sinus, traumatic, ventricular septal defect, and aortic insufficiency (Desser et al.), 830

spontaneous, of ductus arteriosus in patient with Marfan's syndrome (Crisfield), 243

thoracic, clinical experience with pulsatile left heart bypass without anticoagulation for (Connolly et al.), 568

Anomalies, cardiac, in infancy using extracorporeal circulation, total correction of: surgical consideration and results of operation (Ching et al.), 117

Anomalous blood supply, congenital cystic adenomatoid malformation with (Hutchin et al.), 220

left superior vena cava, transvenous pacemaker implantation by way of (Rose et al.), 965

*July, pp. 1-166; August, pp. 167-336; September, pp. 337-502; October, pp. 503-672; November, pp. 673-836; December, pp. 837-1010.

XUM

Anomalous—Cont'd
pulmonary venous drainage, total, supradiaphragmatic, with obstruction in 3-month-old infant, successful correction of (Joffe et al.), 238
return, infradiaphragmatic: surgical correction in newborn infant (Friedli et al.), 301
Anticoagulation, left heart bypass without (Engelman et al.), 851
for thoracic aneurysms, clinical experience with pulsatile left heart bypass without (Connolly et al.), 568
Aorta, ascending, caused by cystic medial necrosis, primary anastomosis of aneurysms of (Trinkle et al.), 281
-coronary saphenous vein bypass grafting, progression of proximal coronary artery lesions to total occlusion after (Aldridge and Trimble), 7
correction of coarctation of: manometric determination of safety during test occlusion (Hughes and Reemtsma), 31
surgical correction of esophageal obstruction due to tortuosity of: case report describing relief by means of new operative procedure (Lambert), 973
thoracic, descending, proximal, multisaccular aneurysm of: report of case with associated coarctation (Lui), 813
Aortic aneurysms, thoracic, selected, definitive treatment of: shunt grafts and aneurysm resection (Piccone et al.), 250
graft, heterologous, correction by: pulmonary valve insufficiency in case of tetralogy of Fallot after Brock's operation (Verginelli et al.), 436
histopathology in human cardiac allografts (Kennedy et al.), 42
homograft valve replacement, congenital mitral stenosis treated by: case report (Pappas et al.), 51
insufficiency, traumatic, sinus aneurysm, and ventricular septal defect (Desser et al.), 830
outflow tract, pericardial patch enlargement of (Stenseth et al.), 442
valve allograft rejection (Tector et al.), 592
homograft, preserved, for Ebstein's malformation, tricuspid valve replacement with: case report (Saigusa et al.), 55
leaflets, viability of connective tissue cells following storage of (Reichenbach et al.), 690
prosthesis, Starr-Edwards, complications following destruction of cloth covering of (Boruchow et al.), 290
Aortocardiac fistula (Treasure et al.), 818
Arrest, cardiac, ischemic, in distal coronary artery bypass, safety of (Reul et al.), 511
Arrhythmias and infarctions, impending, emergency myocardial revascularization for (Lambert et al.), 522
Arterial circulation, systemic, of lung, evaluation of surgical interruption and spontaneous return of (Wright et al.), 473
Arteriosus, ductus, in patient with Marfan's syndrome, spontaneous aneurysm of (Crisfield), 243
truncus, persistent, pathology of semilunar valve in (Becker et al.), 16
Arteriovenous fistula of internal mammary vessels (Boontje and Kruyswijk), 618
Artery aneurysm, pulmonary: successful excision and replacement of main pulmonary artery (Williams et al.), 63
bypass, coronary, distal, safety of ischemic cardiac arrest in (Reul et al.), 511
grafts, coronary, for congestive heart failure: report of experiences with 40 patients (Spencer et al.), 529
coronary, saphenous vein–anastomoses, rapid, new technique for (Main et al.), 837
–bypass, intramyocardial gas tensions in human heart during (Gardner et al.), 844
innominate, by means of temporary heparin-coated shunt bypass, reconstruction of (Murray et al.), 34
lesions, coronary, proximal, to total occlusion after aorta-coronary saphenous vein bypass grafting, progression of (Aldridge and Trimble), 7
pulmonary, main, with valve-bearing tube graft made of autologous pericardium, reconstruction of (Horiuchi et al.), 793
right, changes in pulmonary blood flow produced by autotransplantation of left lung and placement of Ameroid constrictor on (Huang et al.), 131
root, pulmonary, in relation to pulmonary valve autograft and surgery of right ventricular outflow tract, surgical anatomy of (Geens et al.), 262
subclavian, right, retroesophageal, aberrant, arising from Kommerell's diverticulum, repair of aneurysm of (Campbell), 330
surgery, coronary, binocular loupes (microtelescopes) for (Spencer), 163
direct, simple approach to: Cleveland Clinic experience (Effler et al.), 503
Artificial heart implantation, total, in calves, results of (Kwan-Gett et al.), 880
Assist device, cardiac, new, clinical experience with: dual-chambered intra-aortic balloon assist (Bregman and Goetz), 577
Atresia, pulmonary, with intact interventricular septum, surgical treatment of (Murphy et al.), 213

Atrial septal defect in patients over 60 years of age, surgery for: report of surgical correction in 12 patients (Yalav et al.), 788
thrombi, left, in mitral valve disease (Ullal et al.), 932
Atrioventricular canal, complete, utilizing ball-valve replacement of mitral valve, surgical correction of; technical considerations and results (Castaneda et al.), 926
Autograft, valve, pulmonary, and surgery of right ventricular outflow tract, surgical anatomy of pulmonary artery root in relation to (Geens et al.), 262
Autologous pericardium, reconstruction of main pulmonary artery with valve-bearing tube graft made of (Horiuchi et al.), 793
Automated blood gas analysis, computerized, new system for (Veasy et al.), 914
Autotransplantation, cardiac, in calves, cardiac growth after (Seki et al.), 631
of left lung and placement of Ameroid constrictor on right pulmonary artery, changes in pulmonary blood flow produced by (Huang et al.), 131
lung, pulmonary hemodynamics following: studies in unanesthetized dogs with opposite pulmonary artery ligated (Ebert and Hudson), 188
Avulsion, bronchial: successful repair after bilateral pneumothorax (Leape), 470

B

Bacterial endocarditis with pulmonary edema necessitating mitral valve replacement in hemodialysis-dependent patient (Ribot et al.), 59
Ball(s), fungus (intracavitary mycetomas), surgical implications of (Solit et al.), 411
-valve replacement of mitral valve, surgical correction of complete atrioventricular canal utilizing: technical considerations and results (Castaneda et al.), 926
Balloon(s) assist, intra-aortic, dual-chambered: clinical experience with new cardiac assist device (Bregman and Goetz), 577
catheter, reversible interruption of inferior vena cava by means of: preliminary report (Moser et al.), 205
intra-aortic, importance of pulsation in preventing thrombosis from: note of caution (Bernstein and Murphy), 950
Beall valve prosthesis, hemodynamic findings following replacement of mitral valve with (Ramsey et al.), 624
Binocular loupes (microtelescopes) for coronary artery surgery (Spencer), 163
Biologic host, intermediate, cardiac function after prolonged storage in (Wells et al.), 869
material, cardiac prosthesis utilizing (Nosé et al.), 714
Biventricular bypass: physiologic studies during induced ventricular failure and fibrillation (Bernhard et al.), 859
Björk-Shiley tilting-disc prosthesis, mitral valve replacement with (Messmer et al.), 938
Blood for correction of Taussig-Bing malformation, intraventricular rerouting of (Kawashima et al.), 825
flow, pulmonary, produced by autotransplantation of left lung and placement of Ameroid constrictor on right pulmonary artery, changes in (Huang et al.), 131
gas analysis, automated, computerized, new system for (Veasy et al.), 914
supply, anomalous, congenital cystic adenomatoid malformation with (Hutchin et al.), 220
Body fluid shifts after cardiopulmonary bypass. I. Effects of congestive heart failure and hemodilution (Cohn et al.), 423
Brock's operation, pulmonary valve insufficiency in case of tetralogy of Fallot after: correction by heterologous aortic graft (Verginelli et al.), 436
Bronchial avulsion: successful repair after bilateral pneumothorax (Leape), 470
Bronchogenic carcinoma, granular cell myoblastoma (granular cell schwannoma) of right upper bronchus coexisting with: report of first case in literature (Tamayo and Rojas), 268
selectivity in surgical treatment of (Paulson and Urschel), 554
Broncholithiasis (Arrigoni et al.), 231
Bronchopleural fistulas, persistent, management of (Barker et al.), 393
Bronchus, main, right, from esophagus, ectopic origin of: case of pneumonectomy in neonate (Nikaidoh and Swenson), 151
upper, right, coexisting with bronchogenic carcinoma, granular cell myoblastoma (granular cell schwannoma) of: report of first case in literature (Tamayo and Rojas), 268
Budd-Chiari syndrome due to congenital obstruction of Eustachian valve of inferior vena cava (Kilman et al.), 226
Bypass, artery, coronary, distal, safety of ischemic cardiac arrest in (Reul et al.), 511
biventricular: physiologic studies during induced ventricular failure and fibrillation (Bernhard et al.), 859

XUM

Bypass—Cont'd
cardiopulmonary, body fluid shifts after. I. Effects of congestive heart failure and hemodilution (Cohn et al.), 423
with hemodilution, changes in serum ionic calcium during (Das et al.), 449
prolonged, coronary flow and end-diastolic pressure during (Kumar et al.), 12
successful treatment utilizing: rupture of heart due to blunt trauma (Siderys and Strange), 84
coronary artery–saphenous vein, intramyocardial gas tensions in human heart during (Gardner et al.), 844
graft(s), artery, coronary, for congestive heart failure: report of experiences with 40 patients (Spencer et al.), 529
coronary, assessment of myocardial contractility after (Bolcoki et al.), 543
grafting, vein, saphenous, aorta-coronary, progression of proximal coronary artery lesions to total occlusion after (Aldridge and Trimble), 7
heart, left, without anticoagulation (Engelman et al.), 851
pulsatile, without anticoagulation for thoracic aneurysms, clinical experience with (Connolly et al.), 568
patients, cardiopulmonary, receiving large intravenous doses of penicillin, epilepsy in (Currie et al.), 1
shunt, heparin-coated, temporary, reconstruction of innominate artery by means of (Murray et al.), 34
venoarterial, closed-chest, with oxygenation on cardiopulmonary hemodynamics, effects of (Evans et al.), 76
with oxygenator, extracorporeal support of circulation by means of: case study of 8 patients in shock (Lefemine and Harken), 769

C

Calcific mitral stenosis, closed valvulotomy for (Olinger et al.), 357
Calcium, ionic, serum, during cardiopulmonary bypass with hemodilution, changes in (Das et al.), 449
Canal, atrioventricular, complete, utilizing ball-valve replacement of mitral valve, surgical correction of: technical considerations and results (Castaneda et al.), 926
Cannulation, peripheral, for respiratory distress, prepulmonary oxygenation by (Iben et al.), 908
Carbon dioxide–induced changes, time-dependent, in dynamic lung compliance (Patterson), 645
Carcinoma, bronchogenic, granular cell myoblastoma (granular cell schwannoma) of right upper bronchus coexisting with: report of first case in literature (Tamayo and Rojas), 268
selectivity in surgical treatment of (Paulson and Urschel), 554
inoperable, of esophagogastric junction, antireflux palliative resections for (Butterfield), 460
of lung, dilemma of coincident active pulmonary tuberculosis and (Tunell et al.), 563
Cardiac allografts, human, aortic histopathology in (Kennedy et al.), 42
anomalies in infancy using extracorporeal circulation, total correction of: surgical consideration and results of operation (Ching et al.), 117
arrest, ischemic, in distal coronary artery bypass, safety of (Reul et al.), 511
assist device, new, clinical experience with: dual-chambered intra-aortic balloon assist (Bregman and Goetz), 577
function after prolonged storage in intermediate biologic host (Wells et al.), 869
growth after cardiac autotransplantation in calves (Seki et al.), 631
homotransplantation, cervical, in dog, improved technique for (Bush et al.), 68
pacemaker, rechargeable, redundant, preclinical testing of (Tyers et al.), 763
performance, influence of epsilon aminocaproic acid on: experimental study in dogs (Hoie et al.), 255
prosthesis utilizing biological material (Nosé et al.), 714
reinnervation in growing calves, characteristics of (Seki and Danielson), 602
surgery, hemodynamic effects of isoproterenol in (Beregovich et al.), 957
Cardiopulmonary bypass, body fluid shifts after. I. Effects of congestive heart failure and hemodilution (Cohn et al.), 423
with hemodilution, changes in serum ionic calcium during (Das et al.), 449
patients receiving large intravenous doses of penicillin, epilepsy in (Currie et al.), 1
prolonged, coronary flow and end-diastolic pressure during (Kumar et al.), 12
successful treatment utilizing: rupture of heart due to blunt trauma (Siderys and Strange), 84
hemodynamics, effects of closed-chest venoarterial bypass with oxygenation on (Evans et al.), 76
Cardiotomy, intracardiac air following: location, causative factors, and method for removal (Padula et al.), 736
Cardiovascular effects of diazepam (Bianco et al.), 125
response to acute hemodilution (Carey), 103

Cardiovascular—Cont'd
system, protamine sulfate administration and (Gourin et al.), 193
Catheter, balloon, reversible interruption of inferior vena cava by means of: preliminary report (Moser et al.), 205
implantation, pacemaker, thrombosis after (Bergmann and Zimmerman; Ferguson and Burford), 669 (Letter); Reply (Griepp, Daily, and Shumway), 669
Cavopulmonary anastomosis for cyanotic congenital heart disease (Trusler et al.), 803
Cells, tissue, connective, following storage of aortic valve leaflets, viability of (Reichenbach et al.), 690
Cervical cardiac homotransplantation in dog, improved technique for (Bush et al.), 68
Children, intrapleural pacemaker generator in (Escano et al.), 454
Chondromyxoid fibroma, giant, report of case of: resection of entire sternum and replacement with acrylic resin (Alonso-Lej and de Linera), 271
Circulation, arterial, systemic, of lung, evaluation of surgical interruption and spontaneous return of (Wright et al.), 473
extracorporeal, total correction of cardiac anomalies in infancy using: surgical consideration and results of operation (Ching et al.), 117
by means of venoarterial bypass with oxygenator, extracorporeal support of: case study of 8 patients in shock (Lefemine and Harken), 769
Closed-chest venoarterial bypass with oxygenation on cardiopulmonary hemodynamics, effects of (Evans et al.), 76
Closure of Potts anastomosis with mechanical stapler, simple method for (Leand et al.), 285
Cloth covering of Starr-Edwards aortic valve prosthesis, complications following destruction of (Boruchow et al.), 290
Coarctation of aorta, correction of: manometric determination of safety during test occlusion (Hughes and Reemtsma), 31
associated, report of case with: multisaccular aneurysm of proximal descending thoracic aorta (Lui), 813
Collagen-derived heart valves: concept and experimental results (Carpentier et al.), 707
Collateral ventilation, further studies on factors influencing (Johnson and Lindskog), 321
Commissurotomy, mitral, open: results of 100 consecutive cases (Gerami et al.), 366
Compliance, lung, dynamic, time-dependent carbon dioxide–induced changes in (Patterson), 645
Computerized automated blood gas analysis, new system for (Veasy et al.), 914
Congenital cystic adenomatoid malformation with anomalous blood supply (Hutchin et al.), 220
heart disease, cyanotic, cavopulmonary anastomosis for (Trusler et al.), 803
mitral stenosis treated by aortic homograft valve replacement: case report (Pappas et al.), 51
obstruction of Eustachian valve of inferior vena cava, Budd-Chiari syndrome due to (Kilman et al.), 226
Congestive heart failure, coronary artery bypass grafts for: report of experiences with 40 patients (Spencer et al.), 529
and hemodilution, effects of. I. Body fluid shifts after cardiopulmonary bypass (Cohn et al.), 423
Connective tissue cells following storage of aortic valve leaflets, viability of (Reichenbach et al.), 690
Constrictor, Ameroid, on right pulmonary artery, changes in pulmonary blood flow produced by autotransplantation of left lung and placement of (Huang et al.), 131
Contractility, myocardial, after coronary bypass grafts, assessment of (Bolooki et al.), 543
respiratory and metabolic alkalosis and (Streisand et al.), 431
Contusion, pulmonary: continuing management problem (Ratliff et al.), 638
Coronary artery bypass, distal, safety of ischemic cardiac arrest in (Reul et al.), 511
grafts for congestive heart failure: report of experiences with 40 patients (Spencer et al.), 529
lesions, proximal, to total occlusion after aorta-coronary saphenous vein bypass grafting, progression of (Aldridge and Trimble), 7
–saphenous vein anastomoses, rapid, new technique for (Main et al.), 837
bypass, intramyocardial gas tensions in human heart during (Gardner et al.), 844
surgery, binocular loupes (microtelescopes) for (Spencer), 163
direct, simple approach to: Cleveland Clinic experience (Effler et al.), 503
bypass grafts, assessment of myocardial contractility after (Bolooki et al.), 543
flow and end-diastolic pressure during prolonged cardiopulmonary bypass (Kumar et al.), 12
Correspondence
Thrombosis after pacemaker catheter implantation (Bergmann and Zimmerman), 669

XUM

Correspondence—Cont'd
Thrombosis after pacemaker catheter implantation (Ferguson and Burford), 669
Reply to thrombosis after pacemaker catheter implantation (Griepp, Daily, and Shumway), 669
Cuff, low-pressure, for tracheostomy tubes to minimize tracheal injury: comparative clinical trial (Grillo et al.), 898
volume and pressure in tracheostomy tube damage, contribution of (Ching et al.), 402
Cyanotic congenital heart disease, cavopulmonary anastomosis for (Trusler et al.), 803
Cyst(s), hydatid, pulmonary, surgery of: review of 155 cases (Sarsam), 663
pericardial, tumors, and fat necrosis (Wychulis et al.), 294
Cystic adenomatoid malformation, congenital, with anomalous blood supply (Hutchin et al.), 220
medial necrosis, primary anastomosis of aneurysms of ascending aorta caused by (Trinkle et al.), 281

D

Damage, tube, tracheostomy, contribution of cuff volume and pressure in (Ching et al.), 402
Defect, septal, atrial, in patients over 60 years of age, surgery for: report of surgical correction in 12 patients (Yalav et al.), 788
ventricular, traumatic, aortic insufficiency, and sinus aneurysm (Desser et al.), 830
Defibrillation, external-internal: experimental and clinical appraisal (Borman et al.), 98
Diaphragm, paralyzed, reinforcement of ventilation with electrophrenic pacing of (Johnson and Eiseman), 651
Diaphragmatic (infra-) anomalous pulmonary venous return: surgical correction in newborn infant (Friedli et al.), 301
malfunction in neonates and infants: diagnosis and treatment (Sethi and Reed), 138
(supra-) total anomalous pulmonary venous drainage with obstruction in 3-month-old infant, successful correction of (Joffe et al.), 238
Diazepam, cardiovascular effects of (Bianco et al.), 125
Dilation, blind, over string, modification of Teflon esophageal dilators for (Emerson), 248
Dilators, esophageal, Teflon, for blind dilation over string, modification of (Emerson), 248
Direct coronary artery surgery, simple approach to: Cleveland Clinic experience (Effler et al.), 503
Disease, hydatid, of lung (Wolcott et al.), 465
Disrupted prosthetic valves, diagnosis of (Thomas), 27
Diverticulum, Kommerell's, repair of aneurysm of aberrant retroesophageal right subclavian artery arising from (Campbell), 330
Drainage, venous, pulmonary, anomalous, total, supradiaphragmatic, with obstruction in 3-month-old infant, successful correction of (Joffe et al.), 238
Dual-chambered intra-aortic balloon assist: clinical experience with new cardiac assist device (Bregman and Goetz), 577
Ductus arteriosus in patient with Marfan's syndrome, spontaneous aneurysm of (Crisfield), 243
Dynamic lung compliance, time-dependent carbon dioxide-induced changes in (Patterson), 645

E

Ebstein's malformation, tricuspid valve replacement with preserved aortic valve homograft for: case report (Saigusa et al.), 55
Ectopic origin of right main bronchus from esophagus: case of pneumonectomy in neonate (Nikaidoh and Swenson), 151
Edema, pulmonary, necessitating mitral valve replacement in hemodialysis-dependent patient, bacterial endocarditis with (Ribot et al.), 59
Effusions, pericardial, acute and chronic, simple and safe method for diagnosing and treating: subxiphoid pericardial window (Fontenelle et al.), 95
Electrodes, pacemaker, fractured, simple method of repairing (Chua et al.), 457
Electrophrenic pacing of paralyzed diaphragm, reinforcement of ventilation with (Johnson and Eiseman), 651
Embolectomy, pulmonary, transvenous hemodynamic and respiratory responses to (Greenfield et al.), 890
Embolism shock, pulmonary, isoproterenol and norepinephrine therapy for (Rosenberg et al.), 144
Empyema (Emerson et al.), 967
End-diastolic pressure during prolonged cardiopulmonary bypass, coronary flow and (Kumar et al.), 12
Endocarditis, bacterial, with pulmonary edema necessitating mitral valve replacement in hemodialysis-dependent patient (Ribot et al.), 59
Enlargement, patch, pericardial, of aortic outflow tract (Stenseth et al.), 442

Epilepsy in cardiopulmonary bypass patients receiving large intravenous doses of penicillin (Currie et al.), 1
Epsilon aminocaproic acid on cardiac performance, influence of: experimental study in dogs (Hoie et al.), 255
Esophageal dilators, Teflon, for blind dilation over string, modification of (Emerson), 248
obstruction due to tortuosity of aorta, surgical correction of: case report describing relief by means of new operative procedure (Lambert), 973
Esophagogastric junction, anti-reflux palliative resections for inoperable carcinoma of (Butterfield), 460
Esophagus, ectopic origin of right main bronchus from: case of pneumonectomy in neonate (Nikaidoh and Swenson), 151
Eustachian valve of inferior vena cava, Budd-Chiari syndrome due to congenital obstruction of (Kilman et al.), 226
External-internal defibrillation: experimental and clinical appraisal (Borman et al.), 98
Extracorporeal circulation, total correction of cardiac anomalies in infancy using: surgical consideration and results of operation (Ching et al.), 117
support of circulation by means of venoarterial bypass with oxygenator: case study of 8 patients in shock (Lefemine and Harken), 769

F

Fabric-covered prosthetic heart valves, new developments in design of (Braunwald et al.), 673
Failure and fibrillation, ventricular, induced, physiologic studies during: biventricular bypass (Bernhard et al.), 859
heart, congestive, coronary artery bypass grafts for: report of experiences with 40 patients (Spencer et al.), 529
and hemodilution, effects of. I. Body fluid shifts after cardiopulmonary bypass (Cohn et al.), 423
Fallot, tetralogy of, after Brock's operation, pulmonary valve insufficiency in case of: correction by heterologous aortic graft (Verginelli et al.), 436
Fat necrosis, pericardial cysts, tumors and (Wychulis et al.), 294
Fibrillation and failure, ventricular, induced, physiologic studies during: biventricular bypass (Bernhard et al.), 859
Fibrinolysis, mesothelial (Porter et al.), 725
Fibroma, chondromyxoid, giant, report of case of: resection of entire sternum and replacement with acrylic resin (Alonso-Lej and de Linera), 271
Fibrous mediastinitis presenting as mitral stenosis (Trinkle), 161
Fistula(s), aortocardiac (Treasure et al.), 818
arteriovenous, of internal mammary vessels (Boontje and Kruyswijk), 618
bronchopleural, persistent, management of (Barker et al.), 393
Flexible stent: new concept in fabrication of tissue heart valve prostheses (Reis et al.), 683
Flow, blood, pulmonary, produced by autotransplantation of left lung and placement of Ameroid constrictor on right pulmonary artery, changes in (Huang et al.), 131
coronary, and end-diastolic pressure during prolonged cardiopulmonary bypass (Kumar et al.), 12
(high-) prosthetic valves, two, thrombosis of (Cokkinos et al.), 947
Fluid shifts, body, after cardiopulmonary bypass. I. Effects of congestive heart failure and hemodilution (Cohn et al.), 423
Frame-mounted homografts for mitral valve replacement (Lennox et al.), 337
Function, cardiac, after prolonged storage in intermediate biologic host (Wells et al.), 869
Fungus balls (intracavitary mycetomas), surgical implications of (Solit et al.), 411

G

Gas analysis, blood, automated, computerized, new system for (Veasy et al.), 914
tensions, intramyocardial, in human heart during coronary artery–saphenous vein bypass (Gardner et al.), 844
Generator, pacemaker, intrapleural, in children (Escano et al.), 454
Graft(s), aortic, heterologous, correction by: pulmonary valve insufficiency in case of tetralogy of Fallot after Brock's operation (Verginelli et al.), 436
bypass, artery, coronary, for congestive heart failure: report of experiences with 40 patients (Spencer et al.), 529
coronary, assessment of myocardial contractility after (Bolooki et al.), 543
shunt, and aneurysm resection: definitive treatment of selected thoracic aortic aneurysms (Piccone et al.), 250
tube, valve-bearing, made of autologous pericardium, reconstruction of main pulmonary artery with (Horiuchi et al.), 793
viability, valve, role of rejection and mechanical trauma on (Buch et al.), 696
Granular cell myoblastoma (granular cell schwannoma) of right upper bronchus coexisting with bronchogenic carcinoma: report of first case in literature (Tamayo and Rojas), 268
Growth, cardiac, after cardiac autotransplantation in calves (Seki et al.), 631

XUM

H

Haight, Cameron (1901-1970), 479 (Obit.)
Heart due to blunt trauma, rupture of: successful treatment utilizing cardiopulmonary bypass (Siderys and Strange), 84
bypass, left, without anticoagulation (Engelman et al.), 851
pulsatile, without anticoagulation for thoracic aneurysms, clinical experience with (Connolly et al.), 568
disease, congenital, cyanotic, cavopulmonary anastomosis for (Trusler et al.), 803
failure, congestive, coronary artery bypass grafts for: report of experiences with 40 patients (Spencer et al.), 529
and hemodilution, effects of. I. Body fluid shifts after cardiopulmonary bypass (Cohn et al.), 423
human, during coronary artery–saphenous vein bypass, intramyocardial gas tensions in (Gardner et al.), 844
implantation, artificial, total, in calves, results of (Kwan-Gett et al.), 880
transplantation, hemodynamic studies in 2 long-term survivors of (Beck et al.), 315
valve(s), collagen-derived: concept and experimental results (Carpentier et al.), 707
prostheses, tissue, new concept in fabrication of: flexible stent (Reis et al.), 683
prosthetic, fabric-covered, new developments in design of (Braunwald et al.), 673
Hemodialysis-dependent patient, bacterial endocarditis with pulmonary edema necessitating mitral valve replacement in (Ribot et al.), 59
Hemodilution, acute, cardiovascular response to (Carey), 103
changes in serum ionic calcium during cardiopulmonary bypass with (Das et al.), 449
and congestive heart failure, effects of. I. Body fluid shifts after cardiopulmonary bypass (Cohn et al.), 423
Hemodynamic effects of isoproterenol in cardiac surgery (Beregovich et al.), 957
findings following replacement of mitral valve with Beall valve prosthesis (Ramsey et al.), 624
and respiratory responses to transvenous pulmonary embolectomy (Greenfield et al.), 890
studies in 2 long-term survivors of heart transplantation (Beck et al.), 315
Hemodynamics, cardiopulmonary, effects of closed-chest venoarterial bypass with oxygenation on (Evans et al.), 76
pulmonary, following lung autotransplantation: studies in unanesthetized dogs with opposite pulmonary artery ligated (Ebert and Hudson), 188
Hemorrhagic shock, progressive, in pigs, platelet aggregation during: possible effects on postperfusion syndrome (Meagher et al.), 822
Heparin-coated shunt bypass, temporary reconstruction of innominate artery by means of (Murray et al.), 34
Heterologous aortic graft, correction by: pulmonary valve insufficiency in case of tetralogy of Fallot after Brock's operation (Verginelli et al.), 436
Histologic changes associated with rejection of canine lung transplants (Gondos et al.), 183
Histopathology, aortic, in human cardiac allografts (Kennedy et al.), 42
Homograft(s), frame-mounted, for mitral valve replacement (Lennox et al.), 337
valve, aortic, preserved, for Ebstein's malformation, tricuspid valve replacement with: case report (Saigusa et al.), 55
replacement, aortic, congenital mitral stenosis treated by: case report (Pappas et al.), 51
Homotransplantation, cardiac, cervical, in dog, improved technique for (Bush et al.), 68
Host, biologic, intermediate, cardiac function after prolonged storage in (Wells et al.), 869
Human cardiac allografts, aortic histopathology in (Kennedy et al.), 42
Hydatid cysts, pulmonary, surgery of: review of 155 cases (Sarsam), 663
disease of lung (Wolcott et al.), 465
Hypothermia combined with minimal ventilation, successful 20 hour preservation of ischemic canine lung by (Thomas and Buchman), 176
and ischemia on ability of transplanted primate lung to provide immediate and total respiratory support, influence of (Joseph and Morton), 752

I

Implantation, catheter, pacemaker, thrombosis after (Bergmann and Zimmerman; Ferguson and Burford), 669 (Letter); Reply (Griepp, Daily, and Shumway), 669
heart, artificial, total, in calves, results of (Kwan-Gett et al.), 880
pacemaker, transvenous, by way of anomalous left superior vena cava (Rose et al.), 965
Implications, surgical, of intracavitary mycetomas (fungus balls) (Solit et al.), 411
Incompetence, mitral, reconstructive surgery for treatment of: early and late results in 91 patients (Manhas et al.), 781

Infancy using extracorporeal circulation, total correction of cardiac anomalies in: surgical consideration and results of operation (Ching et al.), 117
Infant, newborn, surgical correction in: infradiaphragmatic anomalous pulmonary venous return (Friedli et al.), 301
Infants and neonates, diaphragmatic malfunction in: diagnosis and treatment (Sethi and Reed), 138
Infarctions and arrhythmias, impending, emergency myocardial revascularization for (Lambert et al.), 522
Inferior vena cava by means of balloon catheter, reversible interruption of: preliminary report (Moser et al.), 205
Infradiaphragmatic anomalous pulmonary venous return: surgical correction in newborn infant (Friedli et al.), 301
Injury, tracheal, low-pressure cuff for tracheostomy tubes to minimize: comparative clinical trial (Grillo et al.), 898
Innominate artery by means of temporary heparin-coated shunt bypass, reconstruction of (Murray et al.), 34
Insufficiency, aortic, traumatic, sinus aneurysm, and ventricular septal defect (Desser et al.), 830
valve, pulmonary, in case of tetralogy of Fallot after Brock's operation: correction by heterologous aortic graft (Verginelli et al.), 436
Internal mammary vessels, arteriovenous fistula of (Boontje and Kruyswijk), 618
Interventricular septum, intact, surgical treatment of pulmonary atresia with (Murphy et al.), 213
surgical techniques for replacement of (Seki and McGoon), 919
Intra-aortic balloon assist, dual-chambered: clinical experience with new cardiac assist device (Bregman and Goetz), 577
importance of pulsation in preventing thrombosis from: note of caution (Bernstein and Murphy), 950
Intracardiac air following cardiotomy: location, causative factors, and method for removal (Padula et al.), 736
Intracavitary mycetomas (fungus balls), surgical implications of (Solit et al.), 411
Intramyocardial gas tensions in human heart during coronary artery–saphenous vein bypass (Gardner et al.), 844
pressure produced by acute ischemia, changes in (Baird and Ameli), 87
Intraoperative aeroembolus, effective measures in prevention of (Lawrence et al.), 731
Intrapleural pacemaker generator in children (Escano et al.), 454
Intraventricular rerouting of blood for correction of Taussig-Bing malformation (Kawashima et al.), 825
Ionic calcium, serum, during cardiopulmonary bypass with hemodilution, changes in (Das et al.), 449
Ischemia, acute, changes in intramyocardial pressure produced by (Baird and Ameli), 87
and hypothermia on ability of transplanted primate lung to provide immediate and total respiratory support, influence of (Joseph and Morton), 752
Ischemic canine lung by hypothermia combined with minimal ventilation, successful 20 hour preservation of (Thomas and Buchman), 176
cardiac arrest in distal coronary artery bypass, safety of (Reul et al.), 511
Isoproterenol in cardiac surgery, hemodynamic effects of (Beregovich et al.), 957
and norepinephrine therapy for pulmonary embolism shock (Rosenberg et al.), 144

J

Junction, esophagogastric, anti-reflux palliative resections for inoperable carcinoma of (Butterfield), 460

K

Kent, Edward Mather (1907-1970), 447 (Obit.)
Kommerell's diverticulum, repair of aneurysm of aberrant retroesophageal right subclavian artery arising from (Campbell), 330

L

Leaflets, valve, aortic, viability of connective tissue cells following storage of (Reichenbach et al.), 690
Loupes (microtelescopes), binocular, for coronary artery surgery (Spencer), 163
Lung autotransplantation, pulmonary hemodynamics following: studies in unanesthetized dogs with opposite pulmonary artery ligated (Ebert and Hudson), 188
canine, ischemic, by hypothermia combined with minimal ventilation, successful 20 hour preservation of (Thomas and Buchman), 176
compliance, dynamic, time-dependent carbon dioxide–induced changes in (Patterson), 645
dilemma of coincident active pulmonary tuberculosis and carcinoma of (Tunell et al.), 563
evaluation of surgical interruption and spontaneous return of systemic arterial circulation of (Wright et al.), 473
hydatid disease of (Wolcott et al.), 465

XUM

Lung—Cont'd
left, and placement of Ameroid constrictor on right pulmonary artery, changes in pulmonary blood flow produced by autotransplantation of (Huang et al.), 131
primate, transplanted, to provide immediate and total respiratory support, influence of ischemia and hypothermia on ability of (Joseph and Morton), 752
transplants, canine, histologic changes associated with rejection of (Gondos et al.), 183

M

Malformation, adenomatoid, cystic, congenital, with anomalous blood supply (Hutchin et al.), 220
Ebstein's, tricuspid valve replacement with preserved aortic valve homograft for: case report (Saigusa et al.), 55
Taussig-Bing, intraventricular rerouting of blood for correction of (Kawashima et al.), 825
Malfunction, diaphragmatic, in neonates and infants: diagnosis and treatment (Sethi and Reed), 138
Mammary vessels, internal, arteriovenous fistula of (Boontje and Kruyswijk), 618
Management of persistent bronchopleural fistulas (Barker et al.), 393
Marfan's syndrome, spontaneous aneurysm of ductus arteriosus in patient with (Crisfield), 243
Mechanical trauma and rejection on valve graft viability, role of (Buch et al.), 696
Mediastinal tumors, surgical treatment of: a 40 year experience (Wychulis et al.), 379
Mediastinitis, fibrous, presenting as mitral stenosis (Trinkle), 161
Membrane oxygenator, venovenous perfusion with (Depp and Hughes), 658
Mesothelial fibrinolysis (Porter et al.), 725
Metabolic and respiratory alkalosis and myocardial contractility (Streisand et al.), 431
Microtelescopes (binocular loupes) for coronary artery surgery (Spencer), 163
Mitral commissurotomy, open: results of 100 consecutive cases (Gerami et al.), 366
incompetence, reconstructive surgery for treatment of: early and late results in 91 patients (Manhas et al.), 781
prosthesis, Smeloff-Cutter, five-year experience with (Fishman et al.), 345
stenosis, calcific, closed valvulotomy for (Olinger et al.), 357
congenital, treated by aortic homograft valve replacement: case report (Pappas et al.), 51
fibrous mediastinitis presenting as (Trinkle), 161
Mitral—Cont'd
valve with Beall valve prosthesis, hemodynamic findings following replacement of (Ramsey et al.), 624
disease, left atrial thrombi in (Ullal et al.), 932
replacement with Björk-Shiley tilting-disc prosthesis (Messmer et al.), 938
disc, supravalvular stenosis after (Rogers et al.), 810
frame-mounted homografts for (Lennox et al.), 337
in hemodialysis-dependent patient, bacterial endocarditis with pulmonary edema necessitating (Ribot et al.), 59
surgical correction of complete atrioventricular canal utilizing ball-valve replacement of: technical considerations and results (Castaneda et al.), 926
Multisaccular aneurysm of proximal descending thoracic aorta: report of case with associated coarctation (Lui), 813
Mycetomas, intracavitary (fungus balls), surgical implications of (Solit et al.), 411
Myoblastoma, cell, granular (granular cell schwannoma) of right upper bronchus coexisting with bronchogenic carcinoma: report of first case in literature (Tamayo and Rojas), 268
Myocardial contractility after coronary bypass grafts, assessment of (Bolooki et al.), 543
respiratory and metabolic alkalosis and (Streisand et al.), 431
(intra-) gas tensions in human heart during coronary artery–saphenous vein bypass (Gardner et al.), 844
(intra-) pressure produced by acute ischemia, changes in (Baird and Ameli), 87
revascularization, emergency, for impending infarctions and arrhythmias (Lambert et al.), 522

N

Necrosis, fat, pericardial cysts, tumors, and (Wychulis et al.), 294
medial, cystic, primary anastomosis of aneurysms of ascending aorta caused by (Trinkle et al.), 281
Neonate(s), case of pneumonectomy in: ectopic origin of right main bronchus from esophagus (Nikaidoh and Swenson), 151
and infants, diaphragmatic malfunction in: diagnosis and treatment (Sethi and Reed), 138
Nerves, phrenic, transvenous stimulation of (Furman et al.), 743
Newborn infant, surgical correction in: infradiaphragmatic anomalous pulmonary venous return (Friedli et al.), 301

Norepinephrine and isoproterenol therapy for pulmonary embolism shock (Rosenberg et al.), 144

O

Obituaries
Edward Mather Kent (1907-1970), 477
Cameron Haight (1901-1970), 479
Obstruction, congenital, of Eustachian valve of inferior vena cava, Budd-Chiari syndrome due to (Kilman et al.), 226
esophageal, due to tortuosity of aorta, surgical correction of: case report describing relief by means of new operative procedure (Lambert), 973
in 3-month-old infant, successful correction of supradiaphragmatic total anomalous pulmonary venous drainage with (Joffe et al.), 238
Occlusion, test, manometric determination of safety during: correction of coarctation of aorta (Hughes and Reemtsma), 31
Open mitral commissurotomy: results of 100 consecutive cases (Gerami et al.), 366
Outflow tract, aortic, pericardial patch enlargement of (Stenseth et al.), 442
ventricular, right, surgical anatomy of pulmonary artery root in relation to pulmonary valve autograft and surgery of (Geens et al.), 262
Oxygenation on cardiopulmonary hemodynamics, effects of closed-chest venoarterial bypass with (Evans et al.), 76
prepulmonary, by peripheral cannulation for respiratory distress (Iben et al.), 908
Oxygenator, extracorporeal support of circulation by means of venoarterial bypass with: case study of 8 patients in shock (Lefemine and Harken), 769
membrane, venovenous perfusion with (Depp and Hughes), 658

P

Pacemaker, cardiac, rechargeable, redundant, preclinical testing of (Tyers et al.), 763
catheter implantation, thrombosis after (Bergmann and Zimmerman; Ferguson and Burford), 669 (Letter); Reply (Griepp, Daily, and Shumway), 669
electrodes, fractured, simple method of repairing (Chua et al.), 457
generator, intrapleural, in children (Escano et al.), 454
implantation, transvenous, by way of anomalous left superior vena cava (Rose et al.), 965
Pacing, electrophrenic, of paralyzed diaphragm, reinforcement of ventilation with (Johnson and Eiseman), 651
Pacing—Cont'd
transvenous, permanent: report on 70 patients (Querimit et al.), 307
Palliative resections, anti-reflux, for inoperable carcinoma of esophagogastric junction (Butterfield), 460
Patch enlargement, pericardial, of aortic outflow tract (Stenseth et al.), 442
Pathology of semilunar valve in persistent truncus arteriosus (Becker et al.), 16
Penicillin, epilepsy in cardiopulmonary bypass patients receiving large intravenous doses of (Currie et al.), 1
Perfusion, venovenous, with membrane oxygenator (Depp and Hughes), 658
Pericardial cysts, tumors, and fat necrosis (Wychulis et al.), 294
patch enlargement of aortic outflow tract (Stenseth et al.), 442
window, subxiphoid: simple and safe method for diagnosing and treating acute and chronic pericardial effusions (Fontenelle et al.), 95
Pericardiectomy for recurrent pericarditis (Hatcher et al.), 371
Pericarditis, recurrent, pericardiectomy for (Hatcher et al.), 371
surgical treatment of (Wychulis et al.), 608
Pericardium, autologous, reconstruction of main pulmonary artery with valve-bearing tube graft made of (Horiuchi et al.), 793
Permanent transvenous pacing: report on 70 patients (Querimit et al.), 307
Phrenic nerves, transvenous stimulation of (Furman et al.), 743
Platelet aggregation during progressive hemorrhagic shock in pigs: possible effects on postperfusion syndrome (Meagher et al.), 822
Pneumonectomy in neonate, case of: ectopic origin of right main bronchus from esophagus (Nikaidoh and Swenson), 151
Pneumothorax, bilateral, successful repair after: bronchial avulsion (Leape), 470
Postperfusion syndrome, possible effects on: platelet aggregation during progressive hemorrhagic shock in pigs (Meagher et al.), 822
Potts anastomosis with mechanical stapler, simple method for closure of (Leand et al.), 285
Prepulmonary oxygenation by peripheral cannulation for respiratory distress (Iben et al.), 908
Preservation, 20 hour, successful, of ischemic canine lung by hypothermia combined with minimal ventilation (Thomas and Buchman), 176

XUM

President's Address: From whence to whither: some reflections on surgical specialty training (Burford), 167
Pressure, cuff, and volume in tracheostomy tube damage, contribution of (Ching et al.), 402
end-diastolic, during prolonged cardiopulmonary bypass, coronary flow and (Kumar et al.), 12
intramyocardial, produced by acute ischemia, changes in (Baird and Ameli), 87
Prevention of intraoperative aeroembolus, effective measures in (Lawrence et al.), 731
Prosthesis(es), cardiac, utilizing biologic material (Nosé et al.), 714
mitral, Smeloff-Cutter, five-year experience with (Fishman et al.), 345
tilting-disc, Björk-Shiley, mitral valve replacement with (Messmer et al.), 938
valve, aortic, Starr-Edwards, complications following destruction of cloth covering of (Boruchow et al.), 290
Beall, hemodynamic findings following replacement of mitral valve with (Ramsey et al.), 624
heart, tissue, new concept in fabrication of: flexible stent (Reis et al.), 683
Prosthetic heart valves, fabric-covered, new developments in design of (Braunwald et al.), 673
valves, disrupted, diagnosis of (Thomas), 27
high-flow, two, thrombosis of (Cokkinos et al.), 947
Protamine sulfate administration and cardiovascular system (Gourin et al.), 193
Pulmonary artery aneurysm: successful excision and replacement of main pulmonary artery (Williams et al.), 63
main, with valve-bearing tube graft made of autologous pericardium, reconstruction of (Horiuchi et al.), 793
root in relation to pulmonary valve autograft and surgery of right ventricular outflow tract, surgical anatomy of (Geens et al.), 262
atresia with intact interventricular septum, surgical treatment of (Murphy et al.), 213
blood flow produced by autotransplantation of left lung and placement of Ameroid constrictor on right pulmonary artery, changes in (Huang et al.), 131
contusion: continuing management problem (Ratliff et al.), 638
edema necessitating mitral valve replacement in hemodialysis-dependent patient, bacterial endocarditis with (Ribot et al.), 59
embolectomy, transvenous, hemodynamic and respiratory responses to (Greenfield et al.), 890
Pulmonary—Cont'd
embolism shock, isoproterenol and norepinephine therapy for (Rosenberg et al.), 144
hemodynamics following lung autotransplantation: studies in unanesthetized dogs with opposite pulmonary artery ligated (Ebert and Hudson), 188
hydatid cysts, surgery of: review of 155 cases (Sarsam), 663
(pre-) oxygenation by peripheral cannulation for respiratory distress (Iben et al.), 908
tuberculosis, active, coincident, and carcinoma of lung, dilemma of (Tunell et al.), 563
valve insufficiency in case of tetralogy of Fallot after Brock's operation: correction by heterologous aortic graft (Verginelli et al.), 436
venous drainage, anomalies, total, supradiaphragmatic, with obstruction in 3-month-old infant, successful correction of (Joffe et al.), 238
return, anomalous, infradiaphragmatic: surgical correction in newborn infant (Friedli et al.), 301
Pulsatile left heart bypass without anticoagulation for thoracic aneurysms, clinical experience with (Connolly et al.), 568
Pulsation in preventing thrombosis from intra-aortic balloons, importance of: note of caution (Bernstein and Murphy), 950

R

Rechargeable, redundant cardiac pacemaker, preclinical testing of (Tyers et al.), 763
Reconstruction of innominate artery by means of temporary heparin-coated shunt bypass (Murray et al.), 34
of main pulmonary artery with valve-bearing tube graft made of autologous pericardium (Horiuchi et al.), 793
Reconstructive surgery for treatment of mitral incompetence: early and late results in 91 patients (Manhas et al.), 781
Recurrent pericarditis, pericardiectomy for (Hatcher et al.), 371
Redundant, rechargeable cardiac pacemaker, preclinical testing of (Tyers et al.), 763
Reflux (anti-) palliative resections for inoperable carcinoma of esophagogastric junction (Butterfield), 460
Reinforcement of ventilation with electrophrenic pacing of paralyzed diaphragm (Johnson and Eiseman), 651
Reinnervation, cardiac, in growing calves, characteristics of (Seki and Danielson), 602
Rejection, allograft, valve, aortic (Tector et al.), 592
of canine lung transplants, histologic changes associated with (Gondos et al.), 183

Rejection—Cont'd
and mechanical trauma on valve graft viability, role of (Buch et al.), 696
Repair of aneurysm of aberrant retroesophageal right subclavian artery arising from Kommerell's diverticulum (Campbell), 330
successful, after bilateral pneumothorax: bronchial avulsion (Leape), 470
Repairing fractured pacemaker electrodes, simple method of (Chua et al.), 457
Replacement with acrylic resin, resection of entire sternum and: report of case of giant chondromyxoid fibroma (Alonso-Lej and de Linera), 271
ball-valve, of mitral valve, surigcal correction of complete atrioventricular canal utilizing: technical considerations and results (Castaneda et al.), 926
of interventricular septum, surgical techniques for (Seki and McGoon), 919
of mitral valve with Beall valve prosthesis, hemodynamic findings following (Ramsey et al.), 624
valve, homograft, aortic, congenital mitral stenosis treated by: case report (Pappas et al.), 51
mitral, with Björk-Shiley tilting-disc prosthesis (Messmer et al.), 938
disc, supravalvular stenosis after (Rogers et al.), 810
frame-mounted homografts for (Lennox et al.), 337
in hemodialysis-dependent patient, bacterial endocarditis with pulmonary edema necessitating (Ribot et al.), 59
tricuspid, with preserved aortic valve homograft for Ebstein's malformation: case report (Saigusa et al.), 55
Resection(s) of entire sternum and replacement with acrylic resin: report of case of giant chondromyxoid fibroma (Alonso-Lej and de Linera), 271
palliative, anti-reflux, for inoperable carcinoma of esophagogastric junction (Butterfield), 460
Resin, acrylic, resection of entire sternum and replacement with: report of case of giant chondromyxoid fibroma (Alonso-Lej and de Linera), 271
Respiratory distress, prepulmonary oxygenation by peripheral cannulation for (Iben et al.), 908
and hemodynamic responses to transvenous pulmonary embolectomy (Greenfield et al.), 890
and metabolic alkalosis and myocardial contractility (Streisand et al.), 431
Respiratory—Cont'd
support, immediate and total, influence of ischemia and hypothermia on ability of transplanted primate lung to provide (Joseph and Morton), 752
Response, cardiovascular, to acute hemodilution (Carey), 103
Retroesophageal right subclavian artery, aberrant, arising from Kommerell's diverticulum, repair of aneurysms of (Campbell), 330
Return, venous, pulmonary, anomalous, infradiaphragmatic: surgical correction in newborn infant (Friedli et al.), 301
Revascularization, myocardial, emergency, for impending infarctions and arrhythmias (Lambert et al.), 522
Root, artery, pulmonary, in relation to pulmonary valve autograft and surgery of right ventricular outflow tract, surgical anatomy of (Geens et al.), 262
Rupture of heart due to blunt trauma: successful treatment utilizing cardiopulmonary bypass (Siderys and Strange), 84

S

Saphenous vein–coronary artery anastomoses, rapid, new technique for (Main et al.), 837
bypass, intramyocardial gas tensions in human heart during (Gardner et al.), 844
Schwannoma, cell, granular (granular cell myoblastoma) of right upper bronchus coexisting with bronchogenic carcinoma: report of first case in literature (Tamayo and Rojas), 268
Semilunar valve in persistent truncus arteriosus, pathology of (Becker et al.), 16
Septal defect, atrial, in patients over 60 years of age, surgery for: report of surgical correction in 12 patients (Yalav et al.), 788
ventricular, traumatic, aortic insufficiency, and sinus aneurysm (Desser et al.), 830
Septum, interventricular, intact, surgical treatment of pulmonary atresia with (Murphy et al.), 213
surgical techniques for replacement of (Seki and McGoon), 919
Serum ionic calcium during cardiopulmonary bypass with hemodilution, changes in (Das et al.), 449
Shock, embolism, pulmonary, isoproterenol and norepinephrine therapy for (Rosenberg et al.), 144
hemorrhagic, progressive, in pigs, platelet aggregation during: possible effects on postperfusion syndrome (Meagher et al.), 822

XUM

Shunt bypass, heparin-coated, temporary, reconstruction of innominate artery by means of (Murray et al.), 34
grafts and aneurysm resection: definitive treatment of selected thoracic aortic aneurysms (Piccone et al.), 250
Sinus aneurysm, traumatic, ventricular septal defect, and aortic insufficiency (Desser et al.), 830
Smeloff-Cutter mitral prosthesis, five-year experience with (Fishman et al.), 345
Specialty training, surgical, some reflections on: from whence to whither (Burford), 167 (President's address)
Stapler, mechanical, simple method for closure of Potts anastomosis with (Leand et al.), 285
Starr-Edwards aortic valve prosthesis, complications following destruction of cloth covering of (Boruchow et al.), 290
Stenosis, mitral, calcific, closed valvulotomy for (Olinger et al.), 357
congenital, treated by aortic homograft valve replacement: case report (Pappas et al.), 51
fibrous mediastinitis presenting as (Trinkle), 161
supravalvular, after disc mitral valve replacement (Rogers et al.), 810
Stent, flexible: new concept in fabrication of tissue heart valve prostheses (Reis et al.), 683
Sternum, entire, and replacement with acrylic resin, resection of: report of case of giant chondromyxoid fibroma (Alonso-Lej and de Linera), 271
Stimulation, transvenous, of phrenic nerves (Furman et al.), 743
Storage of aortic valve leaflets, viability of connective tissue cells following (Reichenbach et al.), 690
prolonged, in intermediate biologic host, cardiac function after (Wells et al.), 869
Subclavian artery, right, retroesophageal, aberrant, arising from Kommerell's diverticulum, repair of aneurysm of (Campbell), 330
Subxiphoid pericardial window: simple and safe method for diagnosing and treating acute and chronic pericardial effusions (Fontenelle et al.), 95
Sulfate administration, protamine, and cardiovascular system (Gourin et al.), 193
Superior vena cava, left, anomalous, transvenous pacemaker implantation by way of (Rose et al.), 965
Support, extracorporeal, of circulation by means of venoarterial bypass with oxygenator: case study of 8 patients in shock (Lefemine and Harken), 769
Support—Cont'd
respiratory, immediate and total, influence of ischemia and hypothermia on ability of transplanted primate lung to provide (Joseph and Morton), 752
Supradiaphragmatic total anomalous pulmonary venous drainage with obstruction in 3-month-old infant, successful correction of (Joffe et al.), 238
Supravalvular stenosis after disc mitral valve replacement (Rogers et al.), 810
Surgical specialty training, some reflections on: from whence to whither (Burford), 167 (President's address)
treatment of pericarditis (Wychulis et al.), 608
Syndrome, Budd-Chiari, due to congenital obstruction of Eustachian valve of inferior vena cava (Kilman et al.), 226
Marfan's, spontaneous aneurysm of ductus arteriosus in patient with (Crisfield), 243
postperfusion, possible effects on: platelet aggregation during progressive hemorrhagic shock in pigs (Meagher et al.), 822
Systemic arterial circulation of lung, evaluation of surgical interruption and spontaneous return of (Wright et al.), 473

T

Taussig-Bing malformation, intraventricular rerouting of blood for correction of (Kawashima et al.), 825
Teflon esophageal dilators for blind dilation over string, modification of (Emerson), 248
Tensions, gas, intramyocardial, in human heart during coronary artery–saphenous vein bypass (Gardner et al.), 844
Tetralogy of Fallot after Brock's operation, pulmonary valve insufficiency in case of: correction by heterologous aortic graft (Verginelli et al.), 436
Thoracic aneurysms, clinical experience with pulsatile left heart bypass without anticoagulation for (Connolly et al.), 568
aorta, descending, proximal, multisaccular aneurysm of: report of case with associated coarctation (Lui), 813
aortic aneurysms, selected, definitive treatment of: shunt grafts and aneurysm resection (Piccone et al.), 250
Thrombi, atrial, left, in mitral valve disease (Ullal et al.), 932
Thrombosis from intra-aortic balloons, importance of pulsation in preventing: note of caution (Bernstein and Murphy), 950
after pacemaker catheter implantation (Bergmann and Zimmerman; Ferguson and Burford), 669 (Letter); Reply (Griepp, Daily, and Shumway), 669
of two high-flow prosthetic valves (Cokkinos et al.), 947

Tilting-disc prosthesis, Björk-Shiley, mitral valve replacement with (Messmer et al.), 938
Tissue cells, connective, following storage of aortic valve leaflets, viability of (Reichenbach et al.), 690
heart valve prostheses, new concept in fabrication of: flexible stent (Reis et al.), 683
Tortuosity of aorta, surgical correction of esophageal obstruction due to: case report describing relief by means of new operative procedure (Lambert), 973
Tracheal injury, low-pressure cuff for tracheostomy tubes to minimize: comparative clinical trial (Grillo et al.), 898
Tracheostomy tube damage, contribution of cuff volume and pressure in (Ching et al.), 402
to minimize tracheal injury, low-pressure cuff for: comparative clinical trial (Grillo et al.), 898
Tract, outflow, aortic, pericardial patch enlargement of (Stenseth et al.), 442
ventricular, right, surgical anatomy of pulmonary artery root in relation to pulmonary valve autograft and surgery of (Geens et al.), 262
Training, specialty, surgical, some reflections on: from whence to whither (Burford), 167 (President's address)
Transplant(s), lung, canine, histologic changes associated with rejection of (Gondos et al.), 183
Transplantation (auto-), cardiac, in calves, cardiac growth after (Seki et al.), 631
heart, hemodynamic studies in 2 long-term survivors of (Beck et al.), 315
(auto-) of left lung and placement of Ameroid constrictor on right pulmonary artery, changes in pulmonary blood flow produced by (Huang et al.), 131
(auto-), lung, pulmonary hemodynamics following: studies in unanesthetized dogs with opposite pulmonary artery ligated (Ebert and Hudson), 188
Transplanted primate lung to provide immediate and total respiratory support, influence of ischemia and hypothermia on ability of (Joseph and Morton), 752
Transvenous pacemaker implantation by way of anomalous left superior vena cava (Rose et al.), 965
pacing, permanent: report on 70 patients (Querimit et al.), 307
pulmonary embolectomy, hemodynamic and respiratory responses to (Greenfield et al.), 890
stimulation of phrenic nerves (Furman et al.), 743
Trauma, blunt, rupture of heart due to: successful treatment utilizing cardiopulmonary bypass (Siderys and Strange), 84
mechanical, and rejection on valve graft viability, role of (Buch et al.), 696
Traumatic ventricular septal defect, aortic insufficiency, and sinus aneurysm (Desser et al.), 830
Treatment, surgical, of mediastinal tumors: a 40 year experience (Wychulis et al.), 379
Tricuspid valve replacement with preserved aortic valve homograft for Ebstein's malformation: case report (Saigusa et al.), 55
Truncus arteriosus, persistent, pathology of semilunar valve in (Becker et al.), 16
Tube(s) damage, tracheostomy, contribution of cuff volume and pressure in (Ching et al.), 402
graft, valve-bearing, made of autologous pericardium, reconstruction of main pulmonary artery with (Horiuchi et al.), 793
tracheostomy, to minimize tracheal injury, low-pressure cuff for: comparative clinical trial (Grillo et al.), 898
Tuberculosis, pulmonary, active, coincident, and carcinoma of lung, dilemma of (Tunell et al.), 563
Tumors, and fat necrosis, pericardial cysts (Wychulis et al.), 294
mediastinal, surgical treatment of: a 40 year experience (Wychulis et al.), 379

V

Valve(s) allograft rejection, aortic (Tector et al.), 592
autograft, pulmonary, and surgery of right ventricular outflow tract, surgical anatomy of pulmonary artery root in relation to (Geens et al.), 262
-bearing tube graft made of autologous pericardium, reconstruction of main pulmonary artery with (Horiuchi et al.), 793
disease, mitral, left atrial thrombi in (Ullal et al.), 932
Eustachian, of inferior vena cava, Budd-Chiari syndrome due to congenital obstruction of (Kilman et al.), 226
graft viability, role of rejection and mechanical trauma on (Buch et al.), 696
heart, collagen-derived: concept and experimental results (Carpentier et al.), 707
prosthetic, fabric-covered, new developments in design of (Braunwald et al.), 673
insufficiency, pulmonary, in case of tetralogy of Fallot after Brock's operation: correction by heterologous aortic graft (Verginelli et al.), 436

XUM

Valve(s)—Cont'd
leaflets, aortic, viability of connective tissue cells following storage of (Reichenbach et al.), 690
mitral, with Beall valve prosthesis, hemodynamic findings following replacement of (Ramsey et al.), 624
surgical correction of complete atrioventricular canal utilizing ball-valve replacement of: technical considerations and results (Castaneda et al.), 926
prosthesis(es), aortic, Starr-Edwards, complications following destruction of cloth covering of (Boruchow et al.), 290
heart, tissue, new concept in fabrication of: flexible stent (Reis et al.), 683
prosthetic, disrupted, diagnosis of (Thomas), 27
high-flow, two, thrombosis of (Cokkinos et al.), 947
replacement, mitral, with Björk-Shiley tilting-disc prosthesis (Messmer et al.), 938
disc, supravalvular stenosis after (Rogers et al.), 810
frame-mounted homografts for (Lennox et al.), 337
in hemodialysis-dependent patient, bacterial endocarditis with pulmonary edema necessitating (Ribot et al.), 59
homograft, aortic, congenital mitral stenosis treated by: case report (Pappas et al.), 51
tricuspid, with preserved aortic valve homograft for Ebstein's malformation: case report (Saigusa et al.), 55
semilunar, in persistent truncus arteriosus, pathology of (Becker et al.), 16
Valvular (supra-) stenosis after disc mitral valve replacement (Rogers et al.), 810
Valvulotomy, closed, for calcific mitral stenosis (Olinger et al.), 357
Vein, saphenous, coronary artery-, anastomoses, rapid, new technique for (Main et al.), 837
-, bypass, intramyocardial gas tensions in human heart during (Gardner et al.), 844
Vena cava, inferior, by means of balloon catheter, reversible interruption of: preliminary report (Moser et al.), 205
Budd-Chiari syndrome due to congenital obstruction of Eustachian valve of (Kilman et al.), 226
superior, left, anomalous, transvenous pacemaker implantation by way of (Rose et al.), 965
Venoarterial bypass, closed-chest, with oxygenation on cardiopulmonary hemodynamics, effects of (Evans et al.), 76
Venoarterial bypass—Cont'd
with oxygenator, extracorporeal support of circulation by means of: case study of 8 patients in shock (Lefemine and Harken), 769
Venous drainage, pulmonary, anomalous, total, supradiaphragmatic, with obstruction in 3-month-old infant, successful correction of (Joffe et al.), 238
return, pulmonary, anomalous, infradiaphragmatic: surgical correction in newborn infant (Friedli et al.), 301
Venovenous perfusion with membrane oxygenator (Depp and Hughes), 658
Ventilation, collateral, further studies on factors influencing (Johnson and Lindskog), 321
with electrophrenic pacing of paralyzed diaphragm, reinforcement of (Johnson and Eiseman), 651
minimal, successful 20 hour preservation of ischemic canine lung by hypothermia combined with (Thomas and Buchman), 176
Ventricular (bi-), bypass: physiologic studies during induced ventricular failure and fibrillation (Bernhard et al.), 859
failure and fibrillation, induced, physiologic studies during: biventricular bypass (Bernhard et al.), 859
outflow tract, right, surgical anatomy of pulmonary artery root in relation to pulmonary valve autograft and surgery of (Geens et al.), 262
septal defect, traumatic, aortic insufficiency, and sinus aneurysm (Desser et al.), 830
(inter-) septum, surgical techniques for replacement of (Seki and McGoon), 919
Vessels, mammary, internal, arteriovenous fistula of (Boontje and Kruyswijk), 618
Viability of connective tissue cells following storage of aortic valve leaflets (Reichenbach et al.), 690
graft, valve, role of rejection and mechanical trauma on (Buch et al.), 696
Volume, cuff, and pressure in tracheostomy tube damage, contribution of (Ching et al.), 402

W

Window, pericardial, subxiphoid: simple and safe method for diagnosing and treating acute and chronic pericardial effusions (Fontenelle et al.), 95

X

Xiphoid (sub-) pericardial window: simple and safe method for diagnosing and treating acute and chronic pericardial effusions (Fontenelle et al.), 95